

FIG. 1

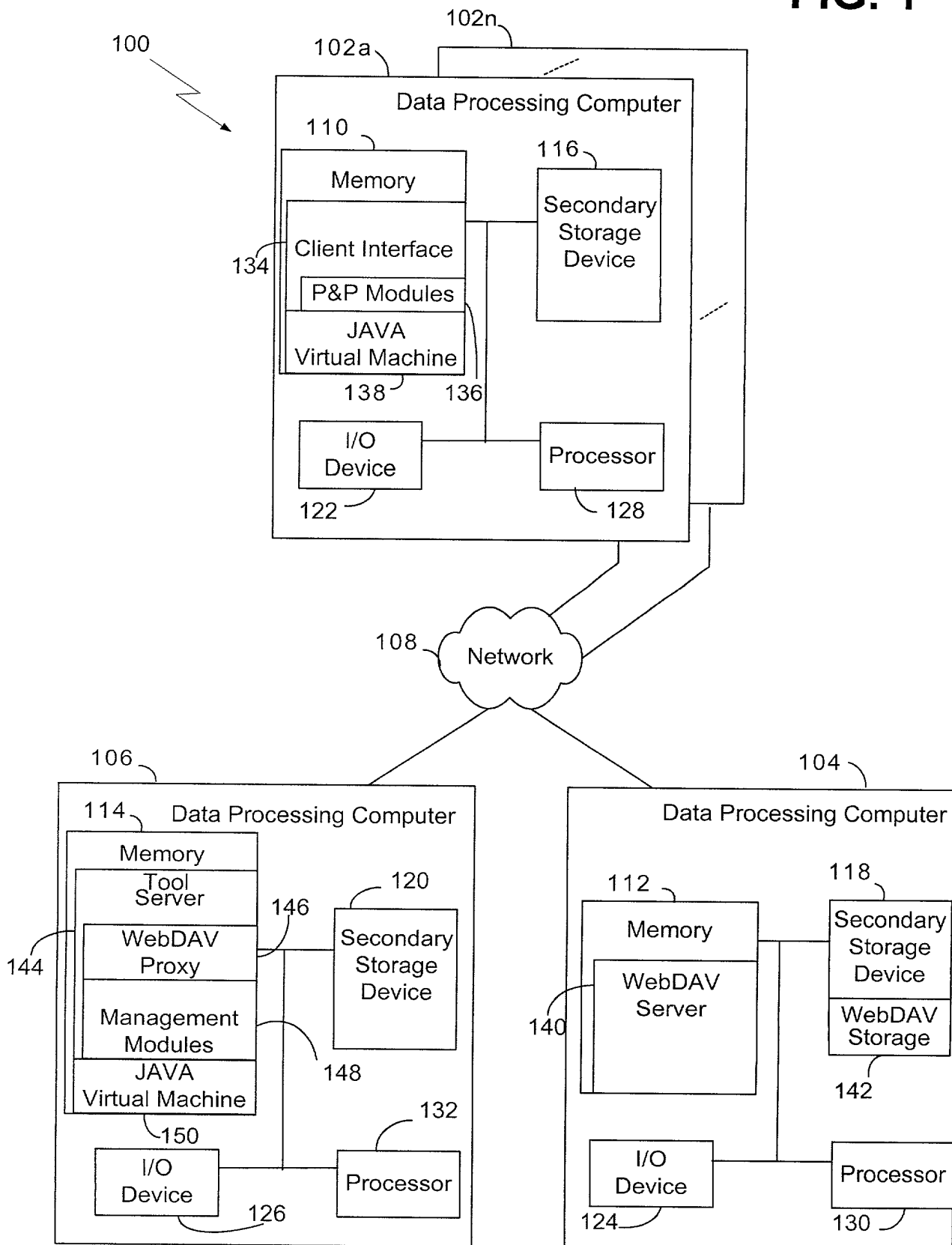


FIG. 2

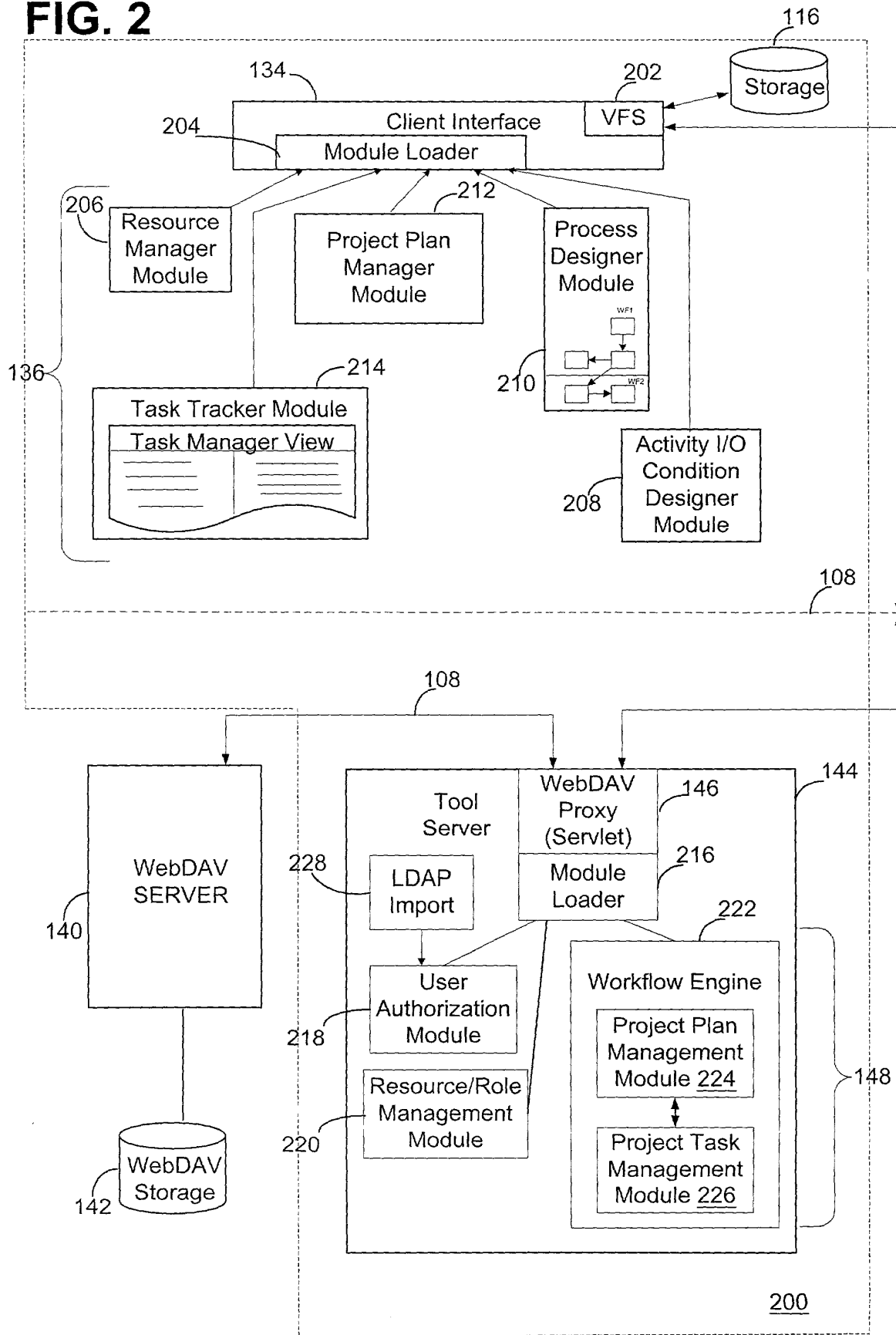


FIG. 3

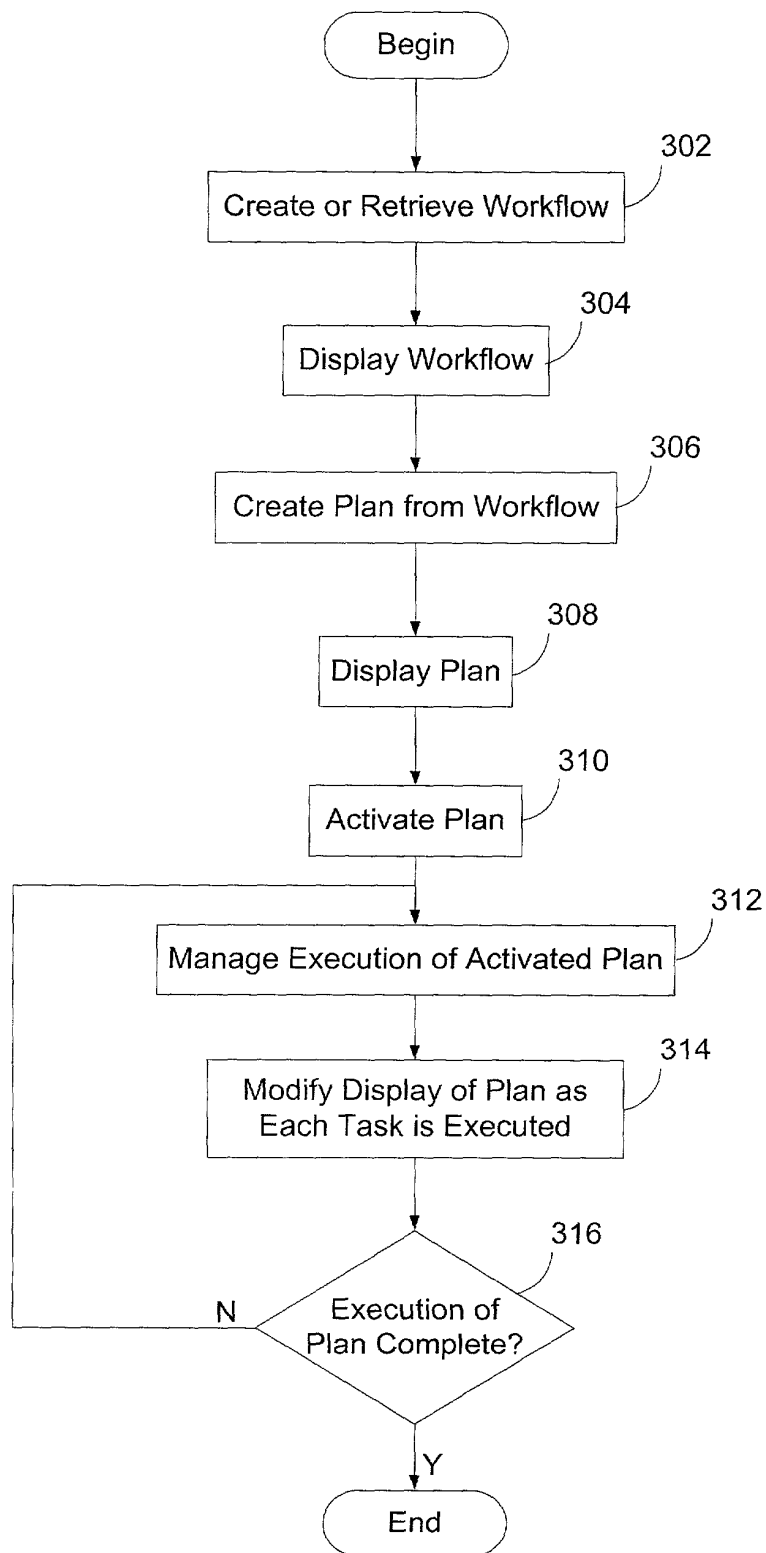


FIG. 4

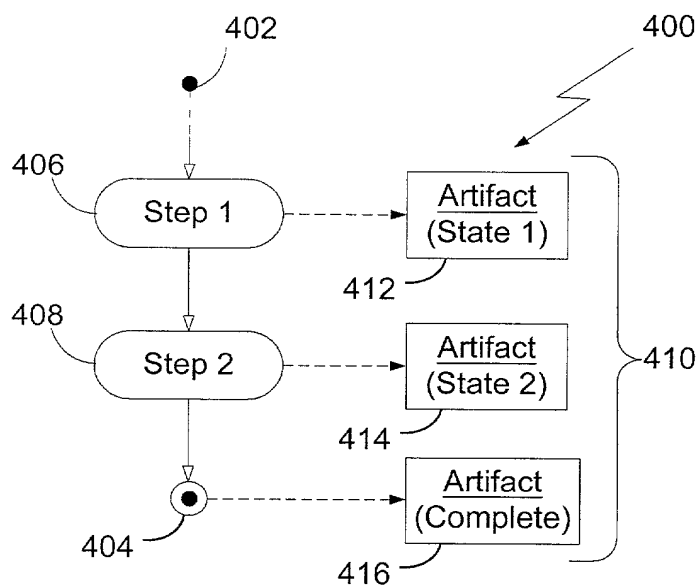


FIG. 5

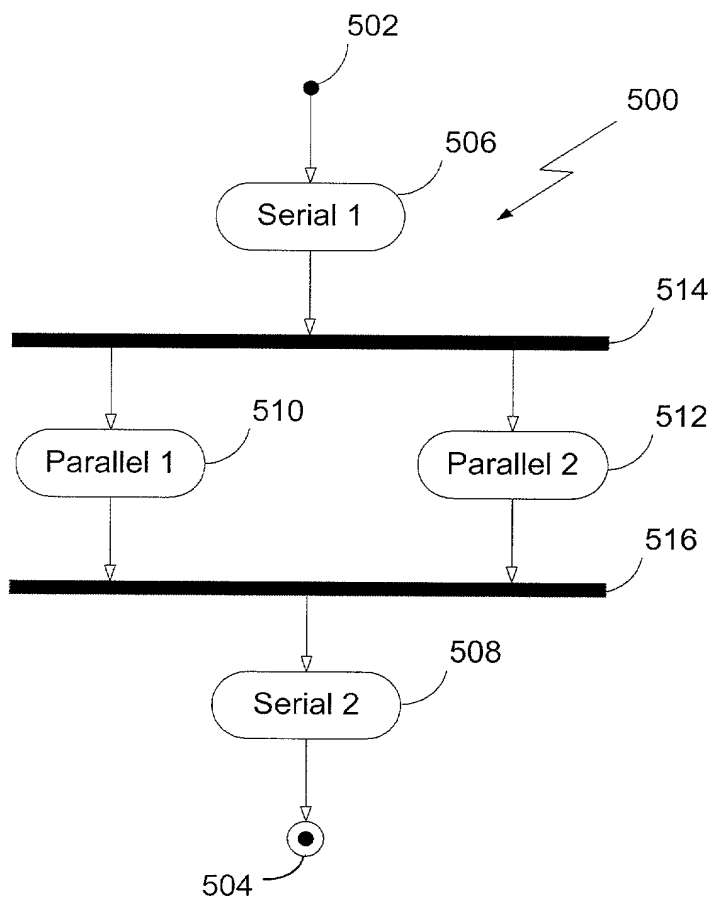


FIG. 6

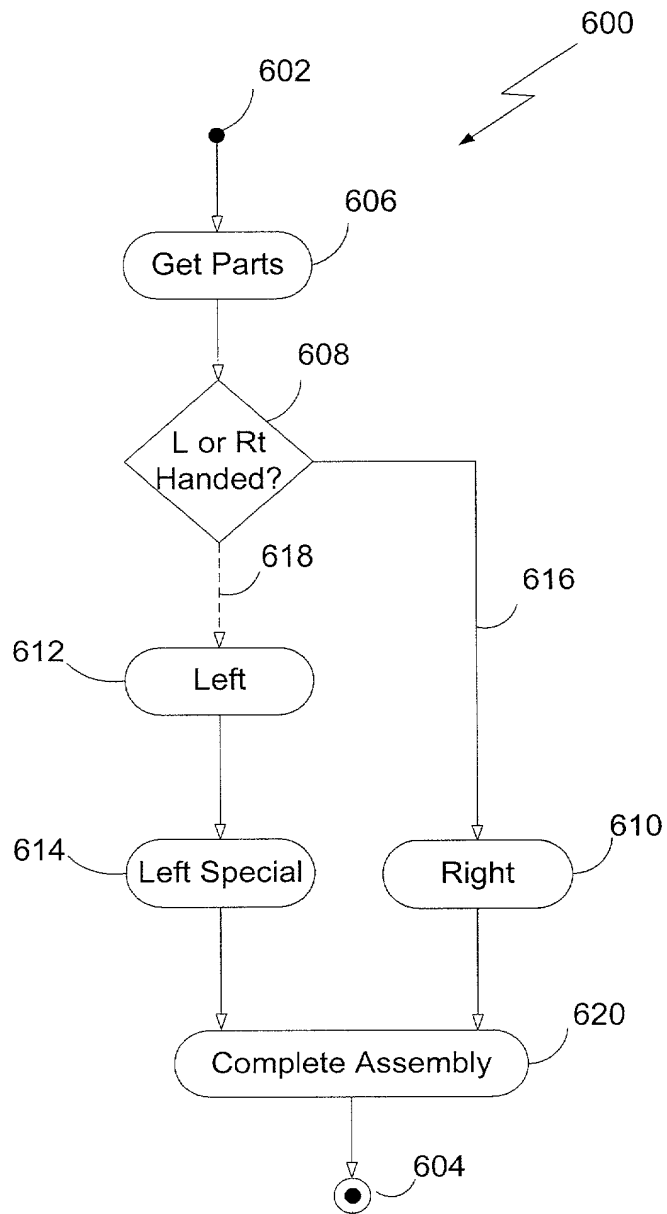


FIG. 7

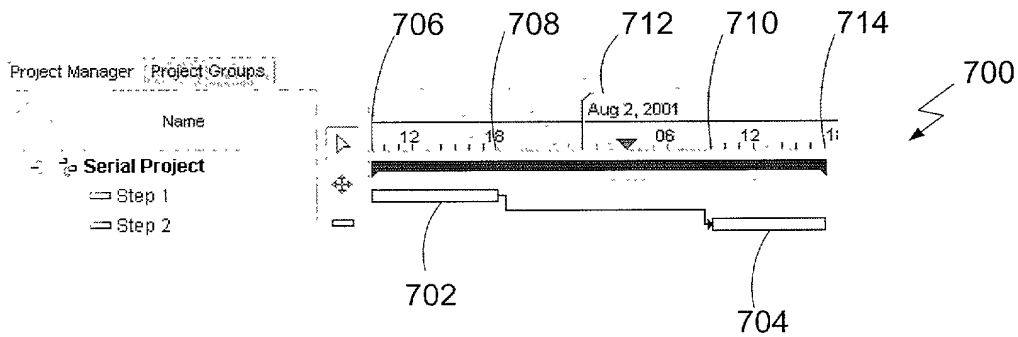


FIG. 8

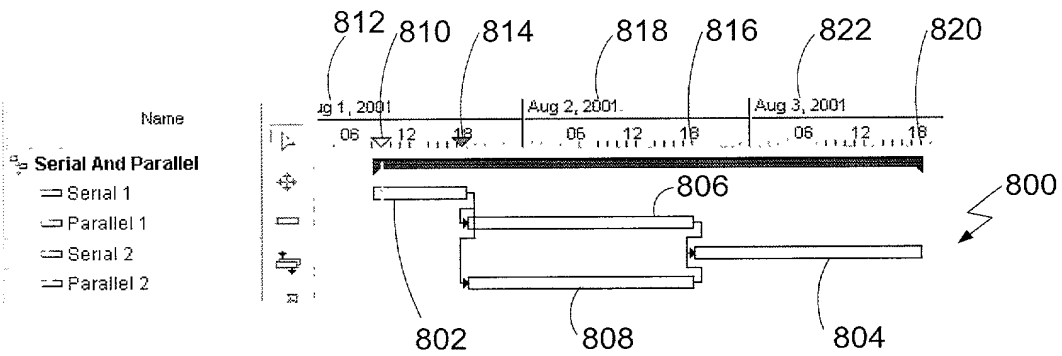


FIG. 9

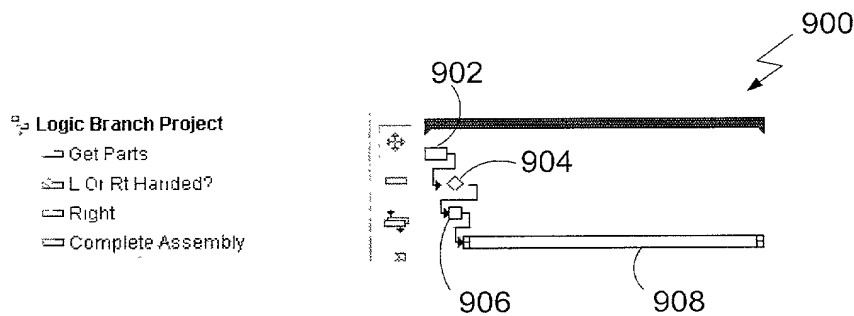


FIG. 10

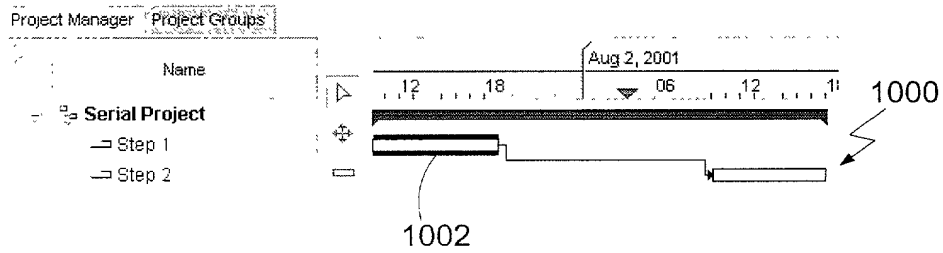


FIG. 11

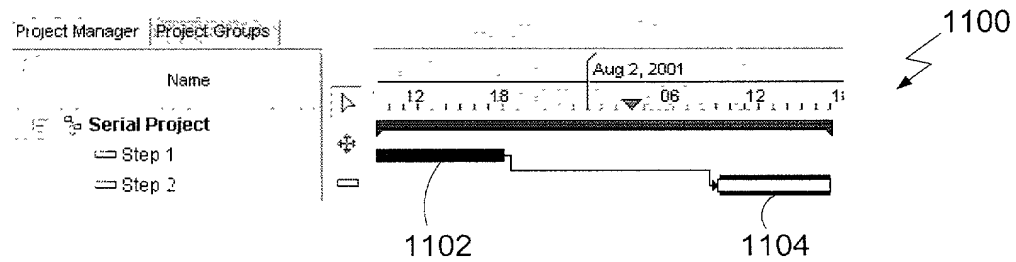


FIG. 12

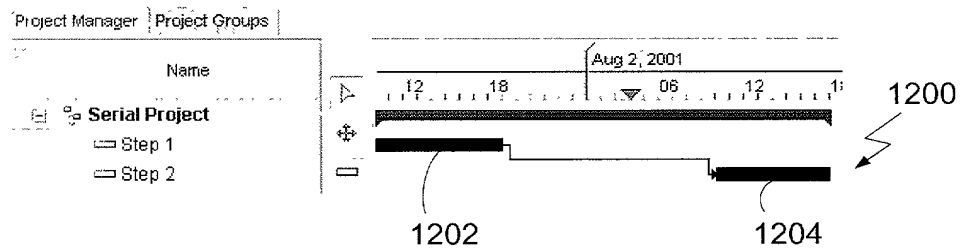


FIG. 13

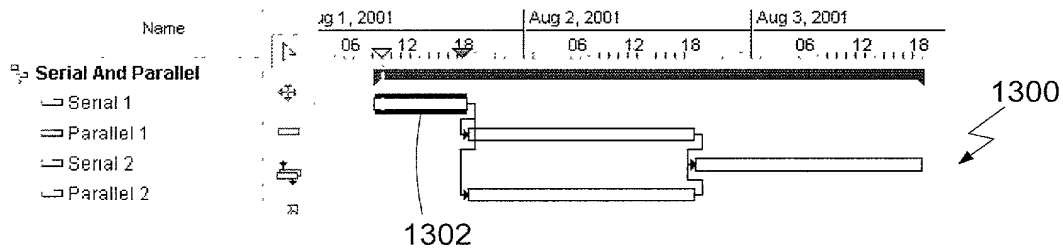


FIG. 14

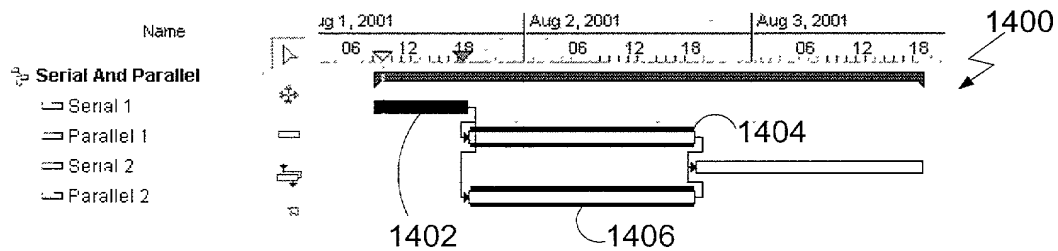


FIG. 15

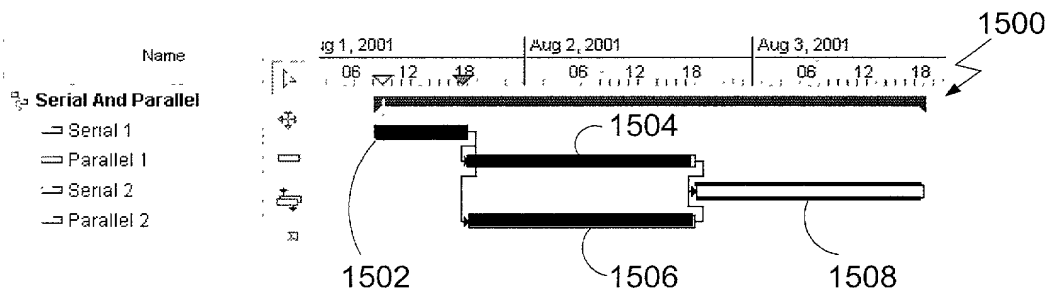


FIG. 16

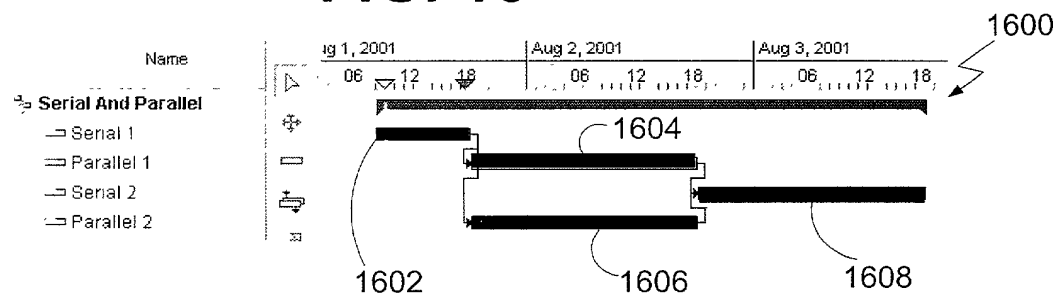


FIG. 17

- Logic Branch Project
- Get Parts
- L Or Rt Handed?
- Right
- Complete Assembly

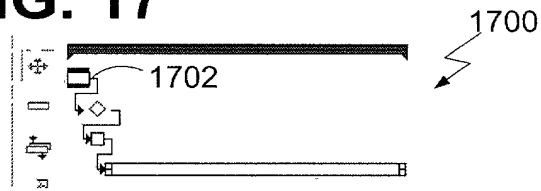


FIG. 18

- Logic Branch Project
- Get Parts
- L Or Rt Handed?
- Right
- Complete Assembly

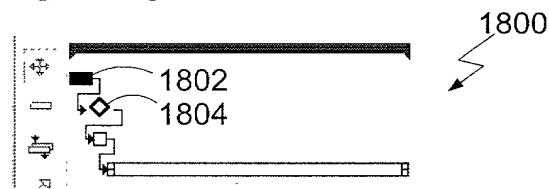


FIG. 19

- Logic Branch Project
- Get Parts
- L Or Rt Handed?
- Right
- Complete Assembly

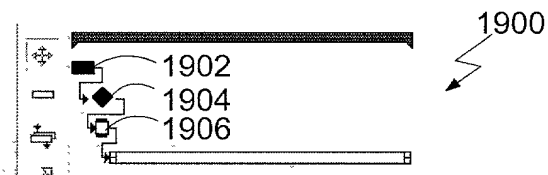


FIG. 20

- Logic Branch Project
- Get Parts
- L Or Rt Handed?
- Right
- Complete Assembly

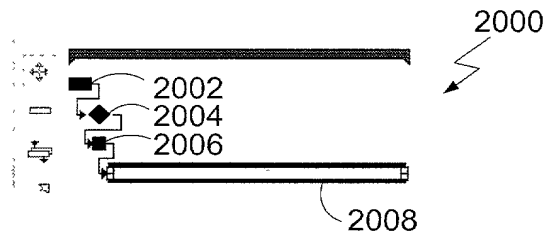


FIG. 21

- Logic Branch Project
- Get Parts
- L Or Rt Handed?
- Right
- Complete Assembly

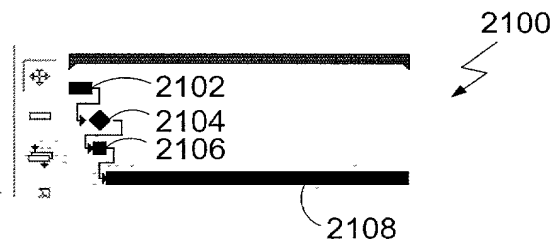


FIG. 22

- Logic Branch Project
 - Get Parts
 - L Or Rt Handed?
 - Right
 - Complete Assembly

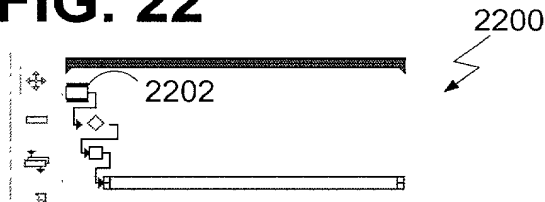


FIG. 23

- Logic Branch Project
 - Get Parts
 - L Or Rt Handed?
 - Right
 - Complete Assembly

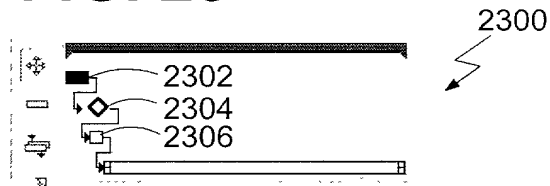


FIG. 24

- Logic Branch
 - Get Parts
 - L Or Rt Handed?
 - Left
 - Left Special
 - Complete Assembly

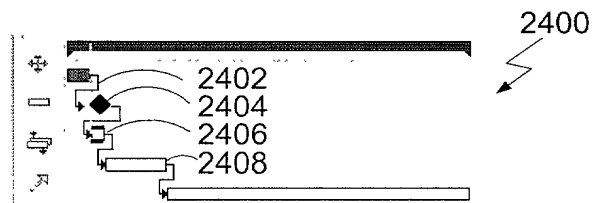


FIG. 25

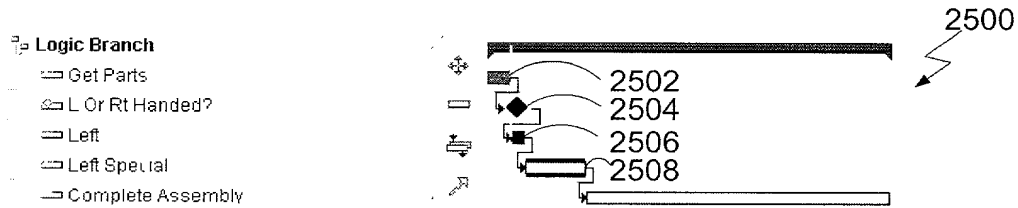


FIG. 26

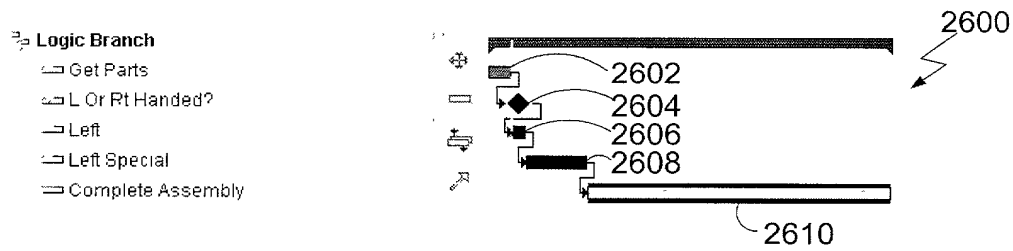


FIG. 27

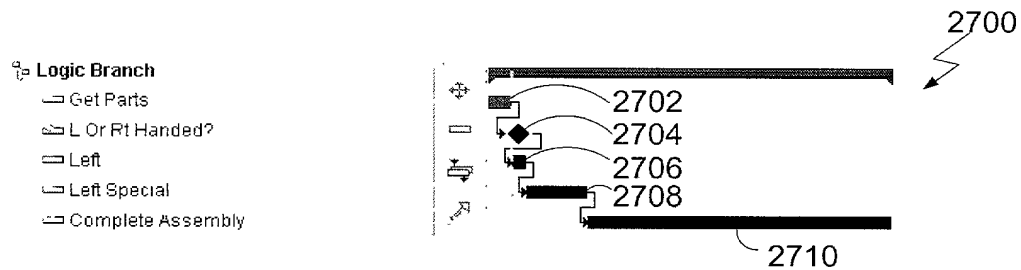


FIG. 28A

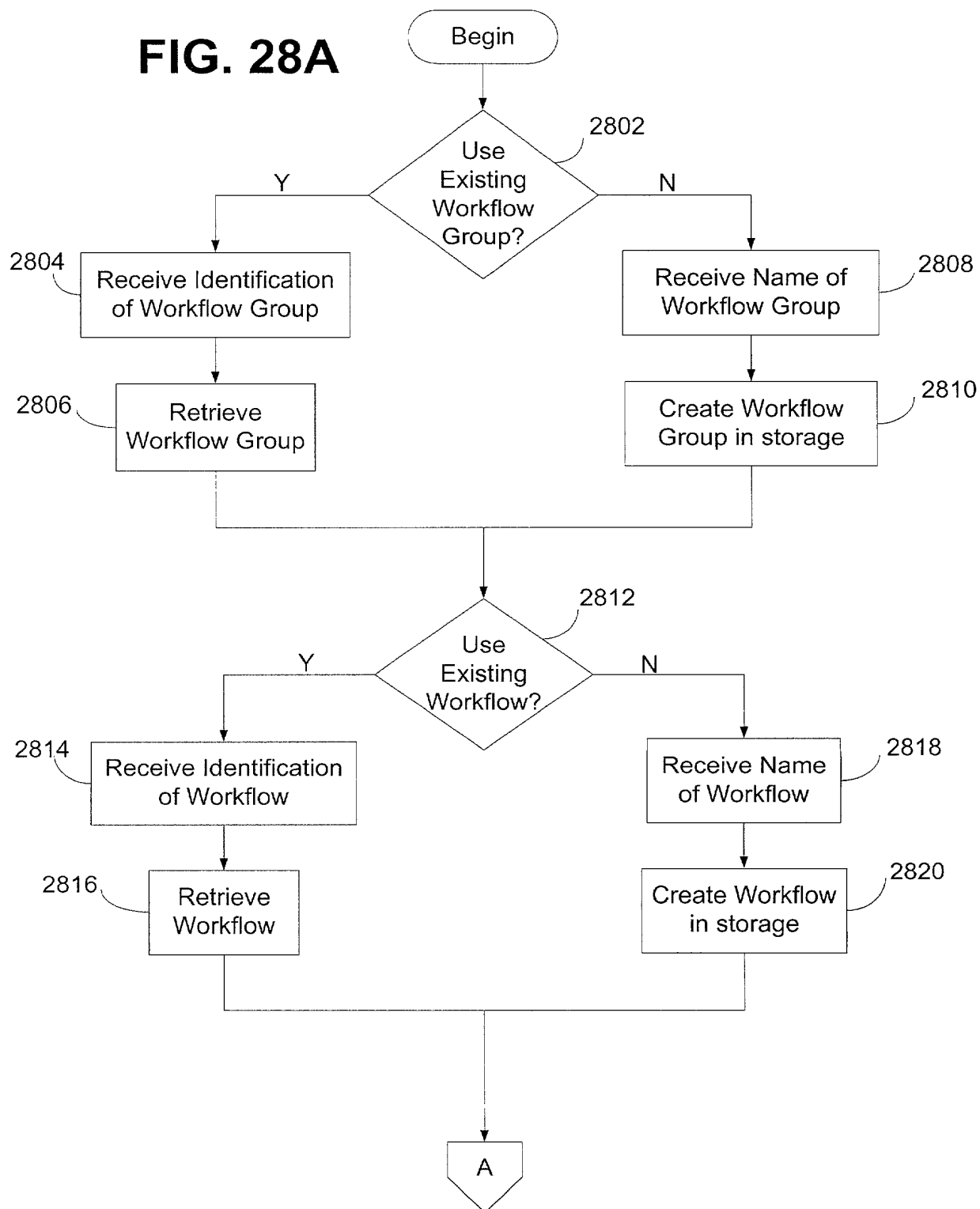


FIG. 28B

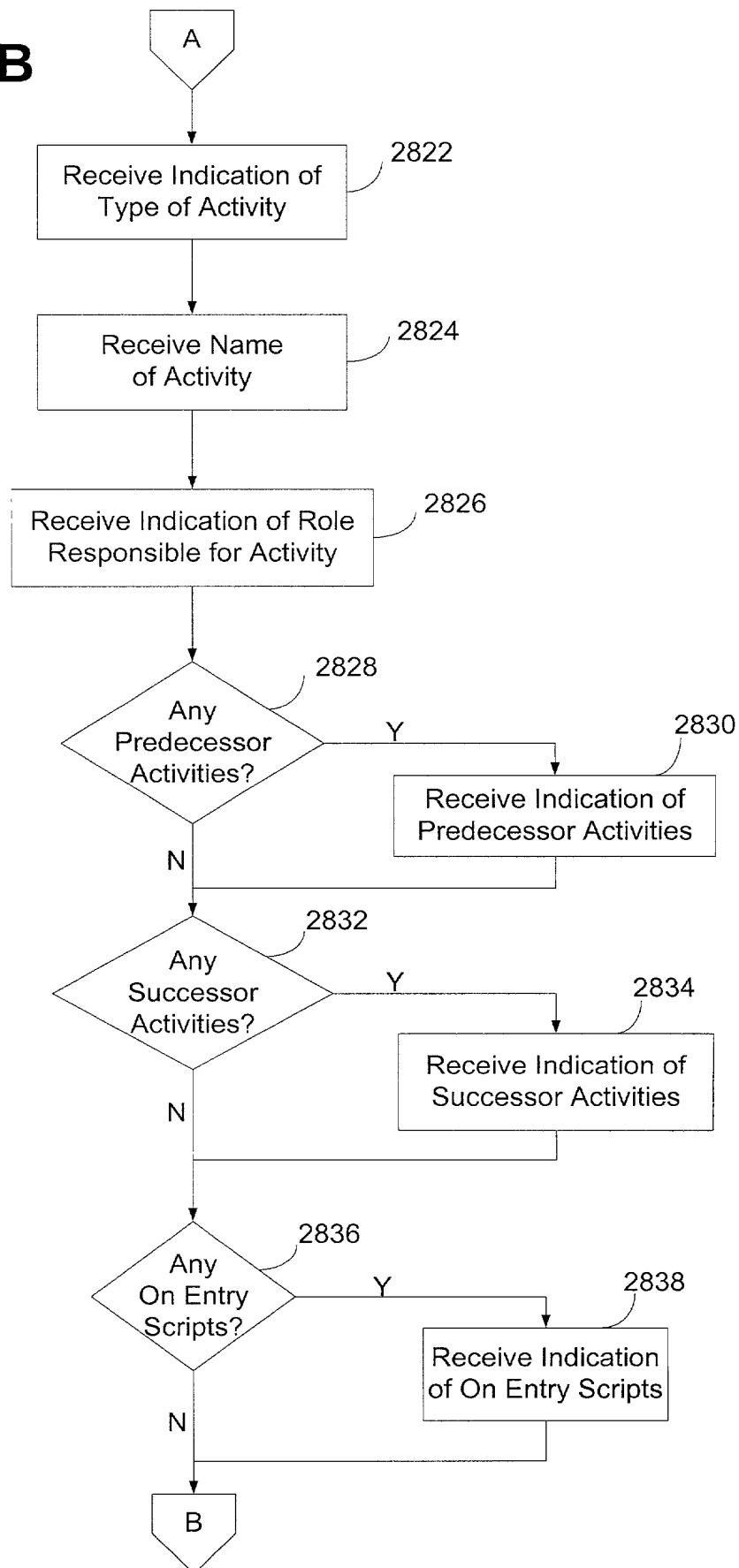


FIG. 28C

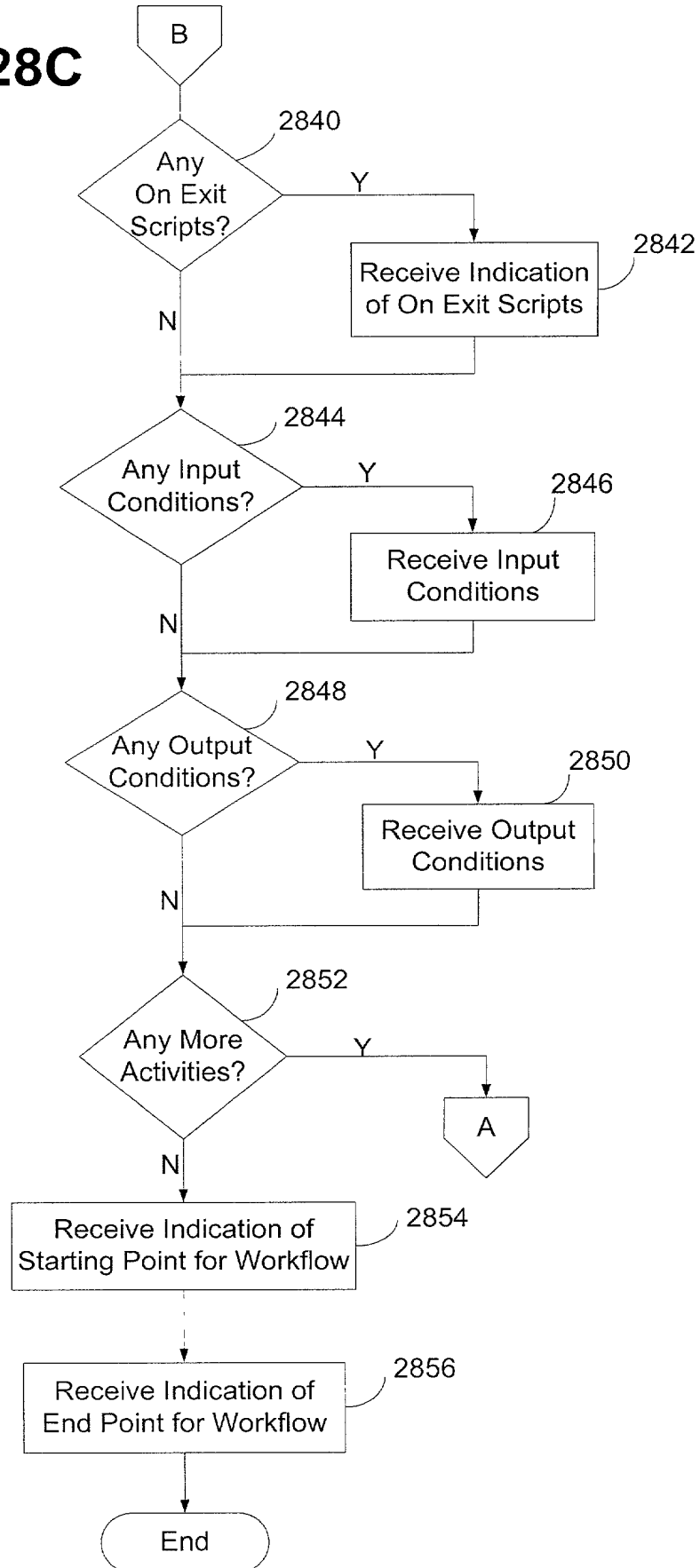


FIG. 29

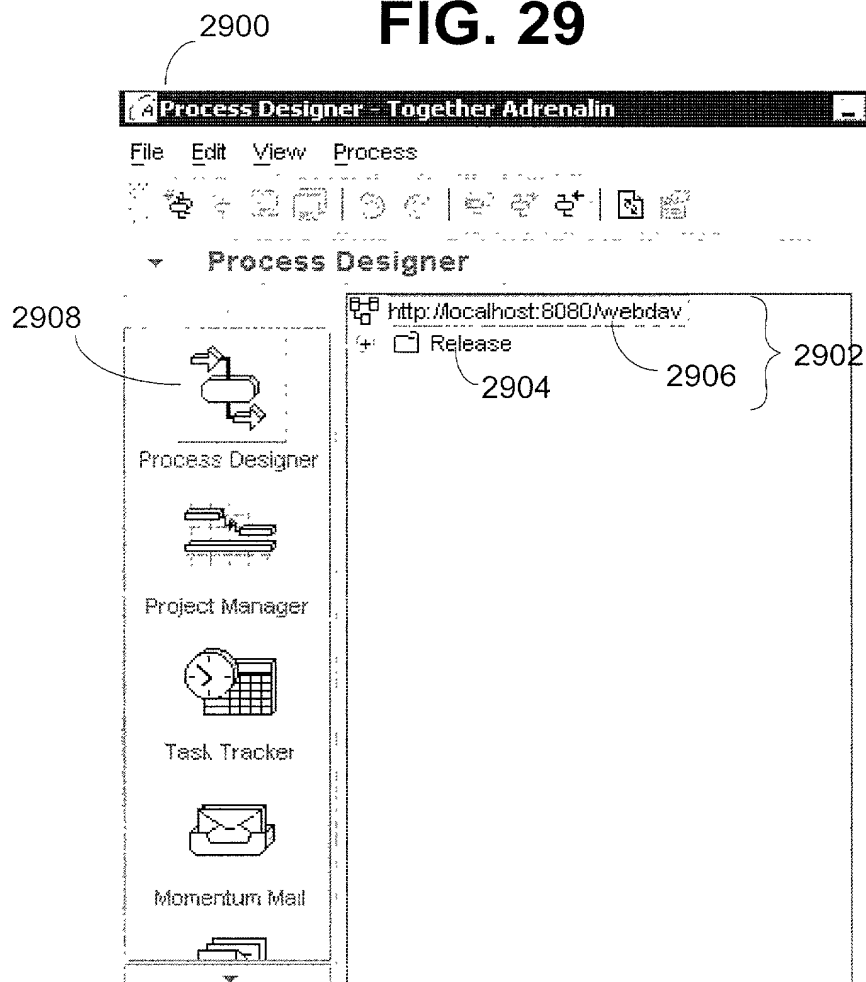


FIG. 30

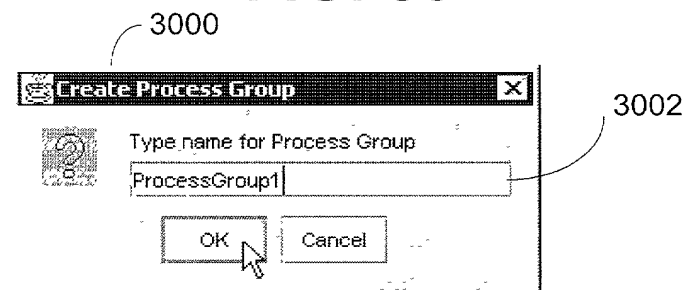


FIG. 31

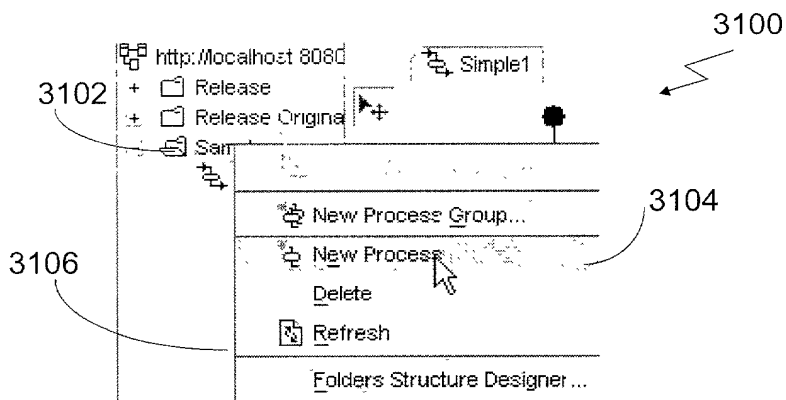


FIG. 32

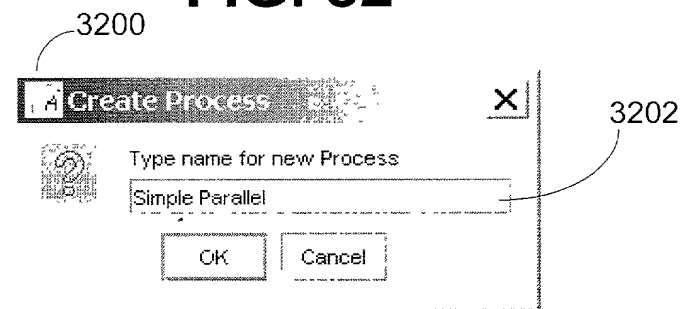


FIG. 33A

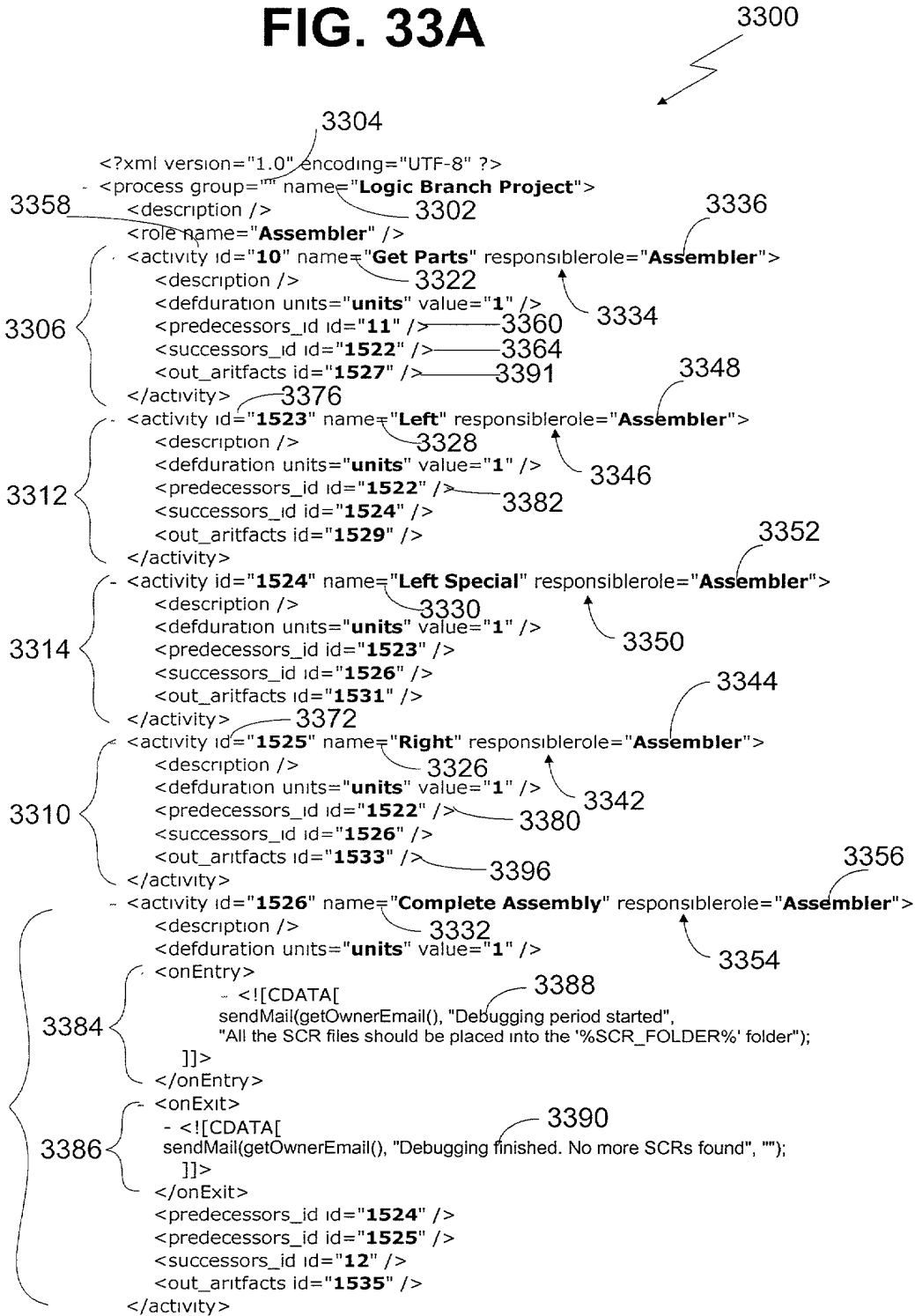


FIG. 33B

3394 {

- <artifact id="1527" identity="linkable1" name="Document is INITIAL">
 - <description>The condition becomes true when the %Document% artifact gets the INITIAL state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
 - <type>linkable</type>
 - <link link="%Document%" />
 - <state>INITIAL</state>
 - <event id="1528" />
- <artifact id="1529" identity="linkable1" name="Document is LEFT">
 - <description>The condition becomes true when the %Document% artifact gets the LEFT state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
 - <type>linkable</type>
 - <link link="%Document%" />
 - <state>LEFT</state>
 - <event id="1530" />
- <artifact id="1531" identity="linkable1" name="Document is LEFT SPECIAL">
 - <description>The condition becomes true when the %Document% artifact gets the LEFT SPECIAL state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
 - <type>linkable</type>
 - <link link="%Document%" />
 - <state>LEFT SPECIAL</state>
 - <event id="1532" />
- <artifact id="1533" identity="linkable1" name="Document is RIGHT">
 - <description>The condition becomes true when the %Document% artifact gets the RIGHT state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
 - <type>linkable</type>
 - <link link="%Document%" />
 - <state>RIGHT</state>
 - <event id="1534" />
- <artifact id="1535" identity="linkable1" name="Document is APPROVED">
 - <description>The condition becomes true when the %Document% artifact gets the APPROVED state. To make this condition valid you should define the %Document% parameter and optionally define the document template and the application to open the document.</description>
 - <type>linkable</type>
 - <link link="%Document%" />
 - <state>APPROVED</state>
 - <event id="1536" />

</artifact>

FIG. 33C

3308 {

- <logic id="1522" name="L or Rt Handed?" responsible="Assembler">
 - <description />
 - <script>
 - <![CDATA[approved()]]>
 - </script>
 - <predecessors_id id="10" />
 - <other_path_id id="1525" />
 - <other_path_id id="1523" />
 - <defpath_id id="1525" />
- </logic>

3318 {

- <syncbar id="11">
 - <description />
 - <startBar>T</startBar>
 - <successors_id id="10" />
- </syncbar>

3320 {

- <syncbar id="12">
 - <description />
 - <endBar>T</endBar>
 - <predecessors_id id="1526" />
- </syncbar>
- <event id="1528" name="??Event_name">
 - <description>??Event_desc</description>
 - <type>REQUEST-GUARD</type>
 - <request>PROPPATCH</request>
- </event>
- <event id="1530" name="??Event_name">
 - <description>??Event_desc</description>
 - <type>REQUEST-GUARD</type>
 - <request>PROPPATCH</request>
- </event>
- <event id="1532" name="??Event_name">
 - <description>??Event_desc</description>
 - <type>REQUEST-GUARD</type>
 - <request>PROPPATCH</request>
- </event>
- <event id="1534" name="??Event_name">
 - <description>??Event_desc</description>
 - <type>REQUEST-GUARD</type>
 - <request>PROPPATCH</request>
- </event>
- <event id="1536" name="??Event_name">
 - <description>??Event_desc</description>
 - <type>REQUEST-GUARD</type>
 - <request>PROPPATCH</request>
- </event>

</process>

FIG. 34

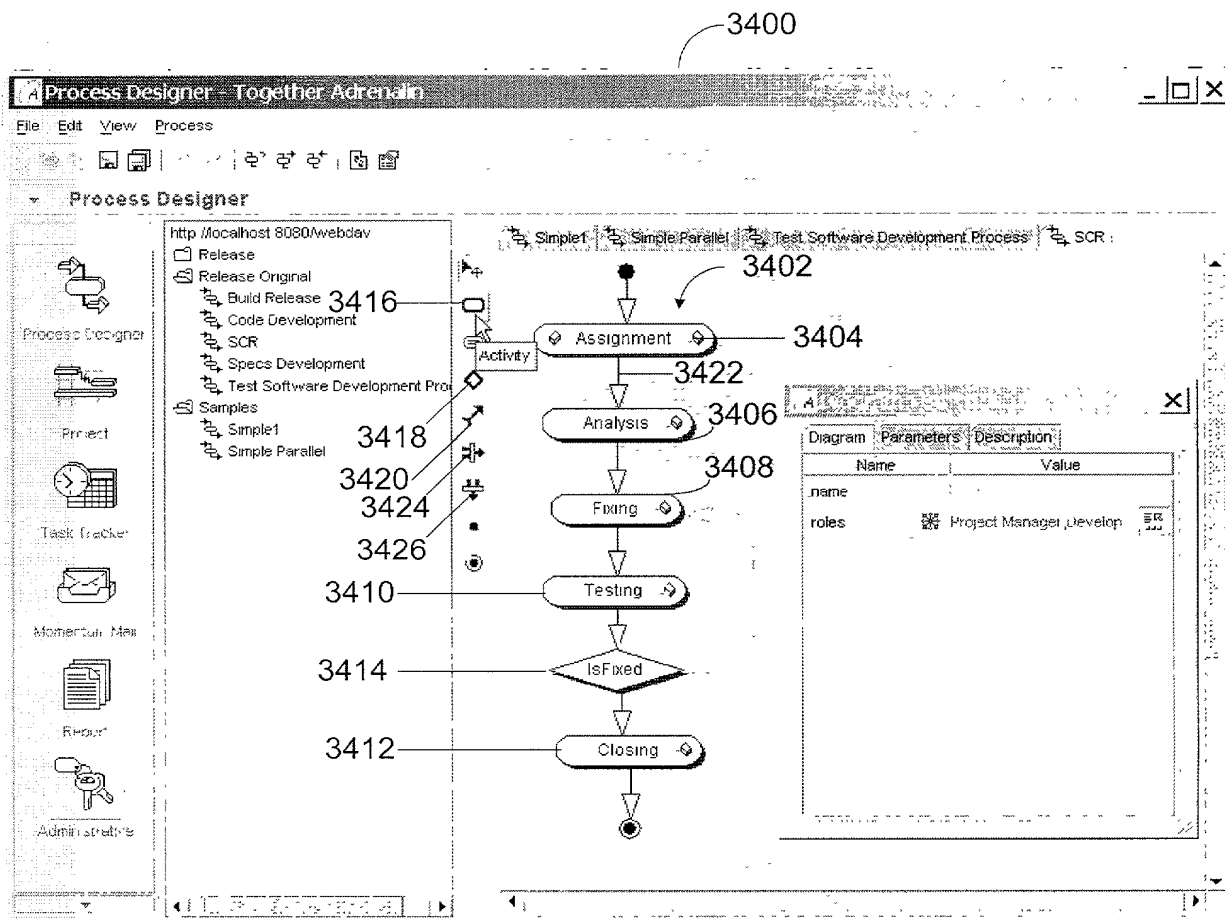


FIG. 35

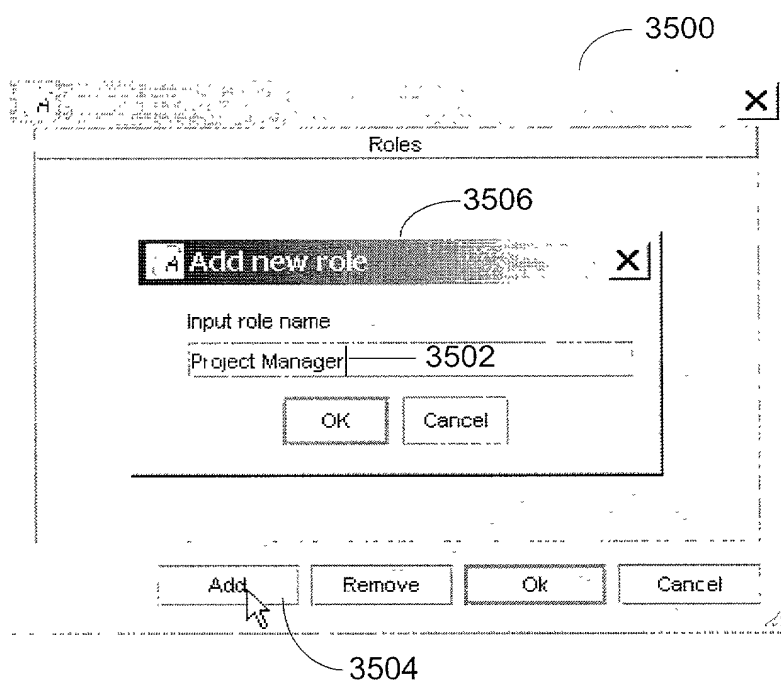


FIG. 36

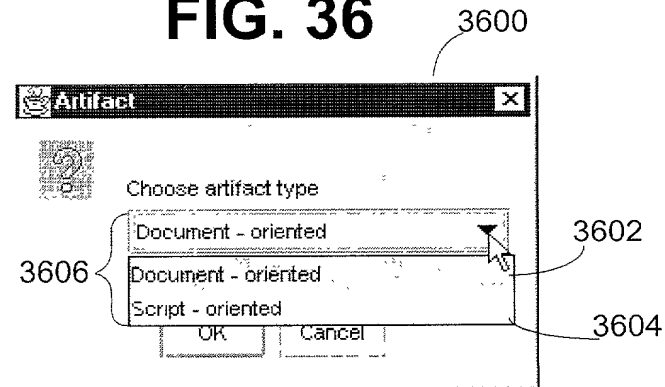


FIG. 37

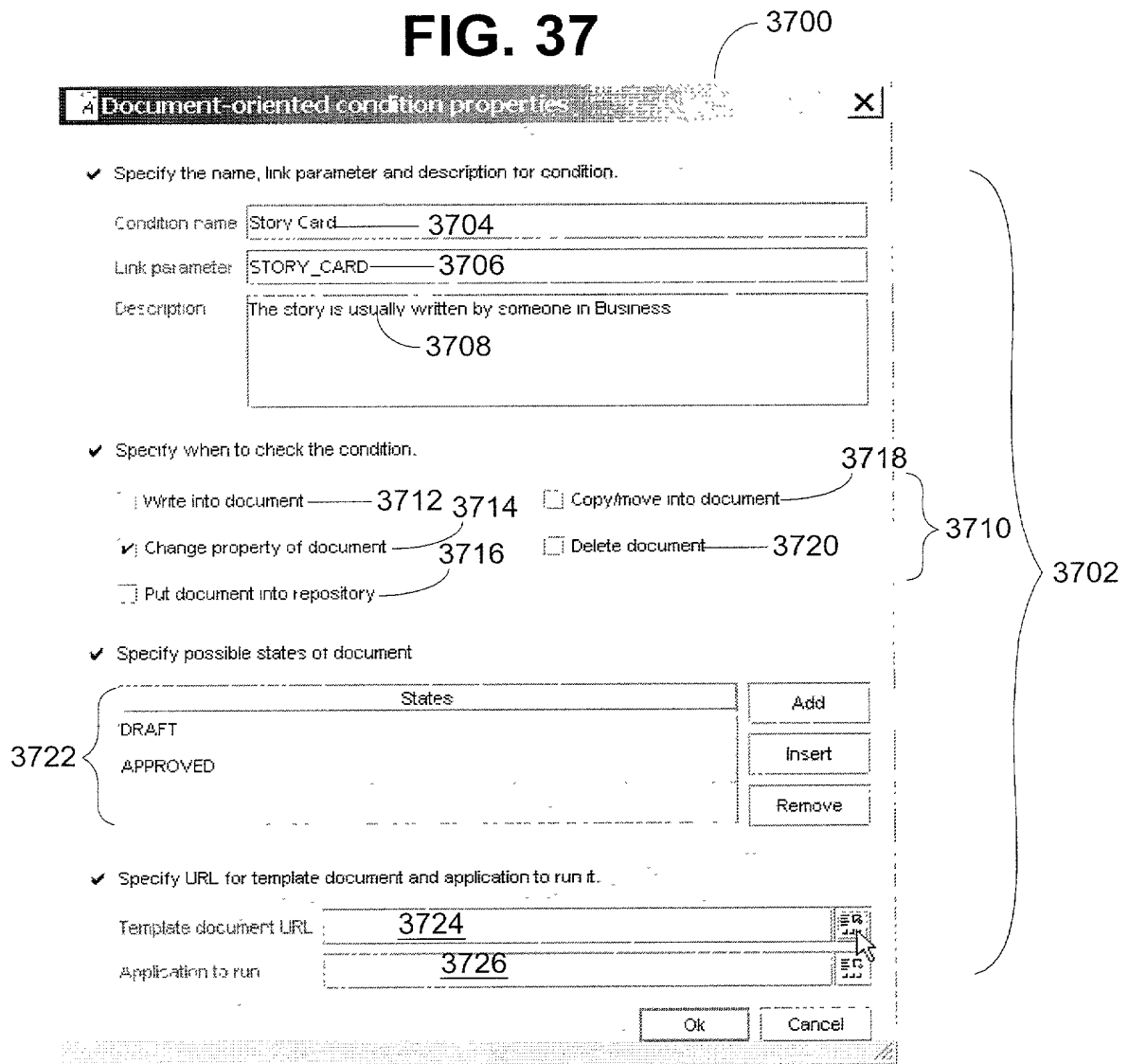


FIG. 38

3800

Script-oriented condition properties [X]

✓ Specify the name and description for condition.

Condition name 3804

Description 3806
Tests if the percent completion is 100%.

3808 {

✓ Specify when to check the condition.

☐ * Absolute time 3810

☐ Period 3812

☐ * Uri change 3814

* - values for these items will be assigned at planning phase

☒ * Task change 3816

☐ Any http request 3818

3802 {

✓ Define script parameters and content 3822

| Name | Value | 3824 |
|------|-------|------|
| | | Add |

Script content 3826 getPercent()==100; 3828

Ok Cancel

FIG. 39

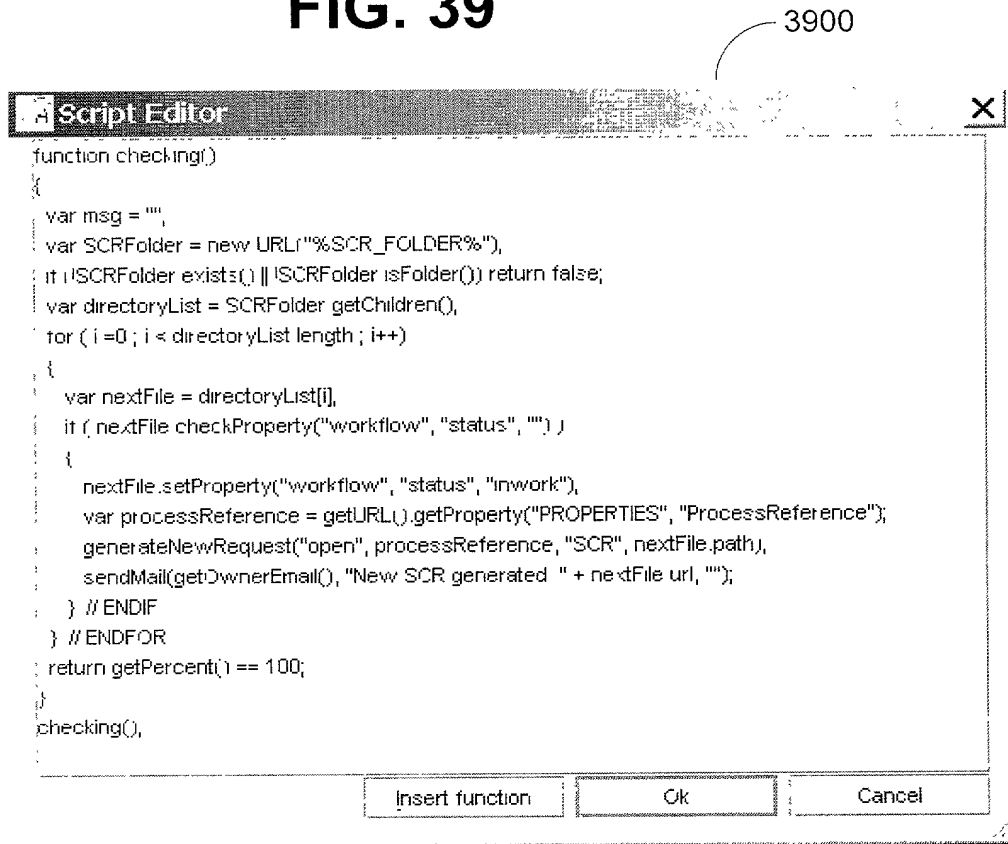


FIG. 40

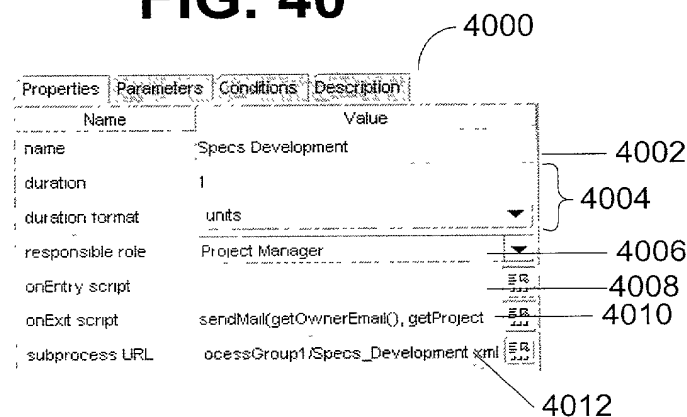


FIG. 41A

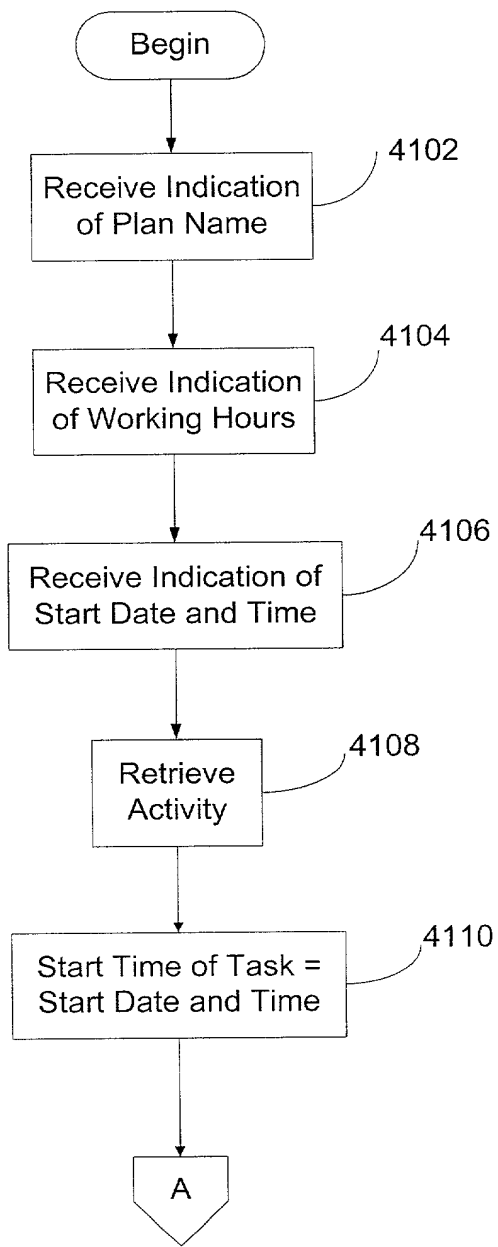


FIG. 41B

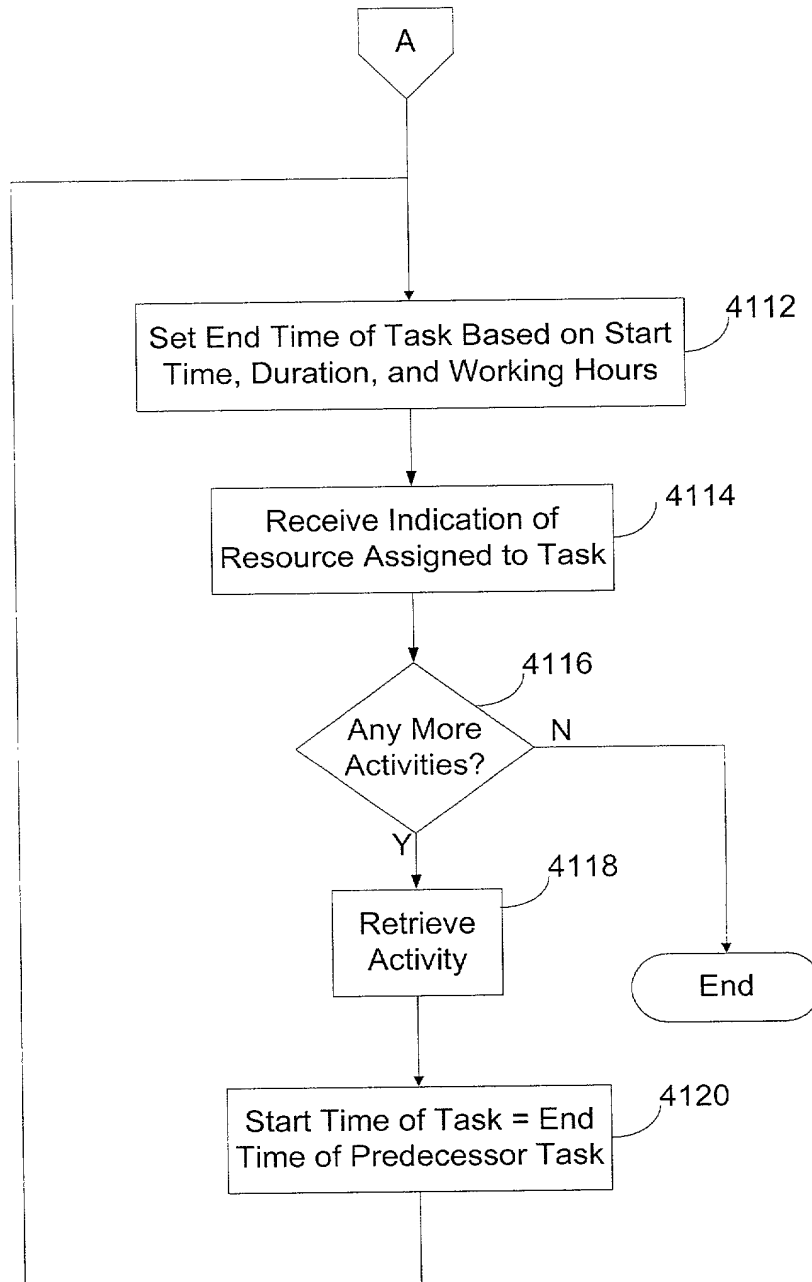


FIG. 42

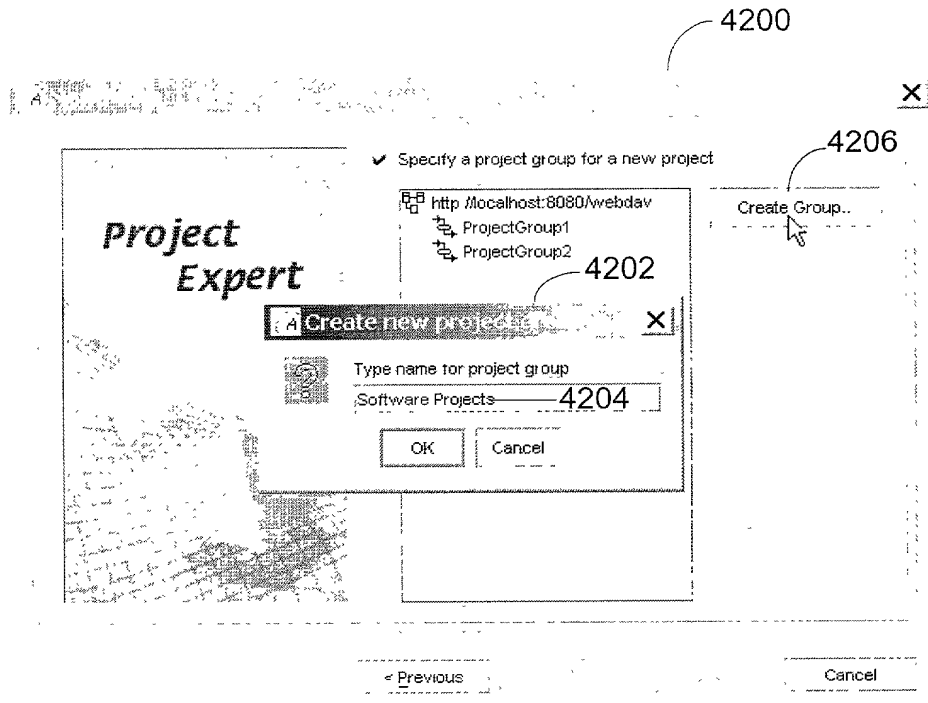


FIG. 43

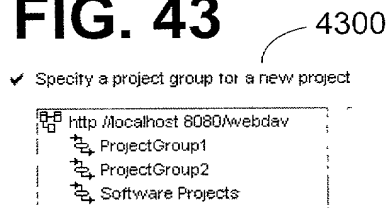


FIG. 44

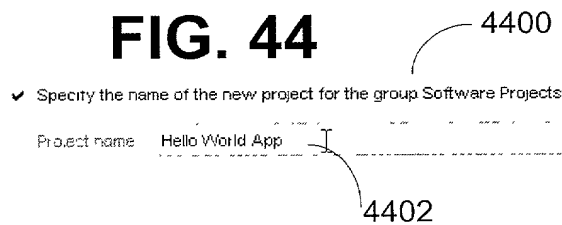


FIG. 45

4500

✓ Specify timetable for project

4502 { Select Timetable template

4504 ☒ Standard Timetable

4520 ☐ Intensive Timetable

4518 ☐ 24 Hours

Working Days

Working Hours

4510 4508 4512 4514 4516

4506 { Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

FIG. 46

4600

✓ Specify start and finish dates of the project

Start date (mm/dd/yy) 7/2/2001 9AM 4602

Finish date (mm/dd/yy) 8/10/2001 5PM 4604

Edit Work Calendar

FIG. 47

4700

```

<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Serial & Parallel">
  <description />
  <role name="Worker" />
  <activity id="10" name="Serial 1" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="9" /> 4704
    <predecessors_id id="11" />
    <successors_id id="1522" />
  </activity>
  <activity id="1523" name="Parallel 1" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="24" /> 4710
    <predecessors_id id="1522" />
    <successors_id id="1525" />
  </activity>
  <activity id="1524" name="Parallel 2" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="24" /> 4712
    <predecessors_id id="1522" />
    <successors_id id="1525" />
  </activity>
  <activity id="1526" name="Serial 2" responsiblerole="Worker">
    <description />
    <defduration units="hours" value="24" /> 4716
    <predecessors_id id="1525" />
    <successors_id id="12" />
  </activity>
  <syncbar id="11">
    <description />
    <startBar>T</startBar>
    <successors_id id="10" />
  </syncbar>
  <syncbar id="12">
    <description />
    <endBar>T</endBar>
    <predecessors_id id="1526" />
  </syncbar>
  <syncbar id="1522" name="SyncBarH1">
    <description />
    <predecessors_id id="10" />
    <successors_id id="1523" />
    <successors_id id="1524" />
  </syncbar>
  <syncbar id="1525" name="SyncBarH2">
    <description />
    <predecessors_id id="1523" />
    <predecessors_id id="1524" />
    <successors_id id="1526" />
  </syncbar>
</process>

```

FIG. 48

4800

```

<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
  - <A:description>
    - <![CDATA[
      No Description
    ]]>
  </A:description>
  - <A:task activityID="10" caption="Serial 1"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 9</A:start> 4804
    <A:finish>2001 8 1 18</A:finish> 4806
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:successor name="Task_3" />
    <A:successor name="Task_4" />
  </A:task>
  - <A:task activityID="1523" caption="Parallel 1"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start> 4812
    <A:finish>2001 8 2 18</A:finish> 4816
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  - <A:task activityID="1524" caption="Parallel 2"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start> 4814
    <A:finish>2001 8 2 18</A:finish> 4818
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  - <A:task activityID="1526" caption="Serial 2"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 2 18</A:start> 4822
    <A:finish>2001 8 3 18</A:finish> 4824
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_3" />
    <A:predecessor name="Task_4" />
  </A:task>
  - <A:task activityID="NONE" caption="Serial And Parallel"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 8</A:start>
    <A:finish>2001 8 3 18</A:finish>
    <A:user>JK</A:user>
    <A:subtask name="Task_2" />
  </A:task>

```

FIG. 49

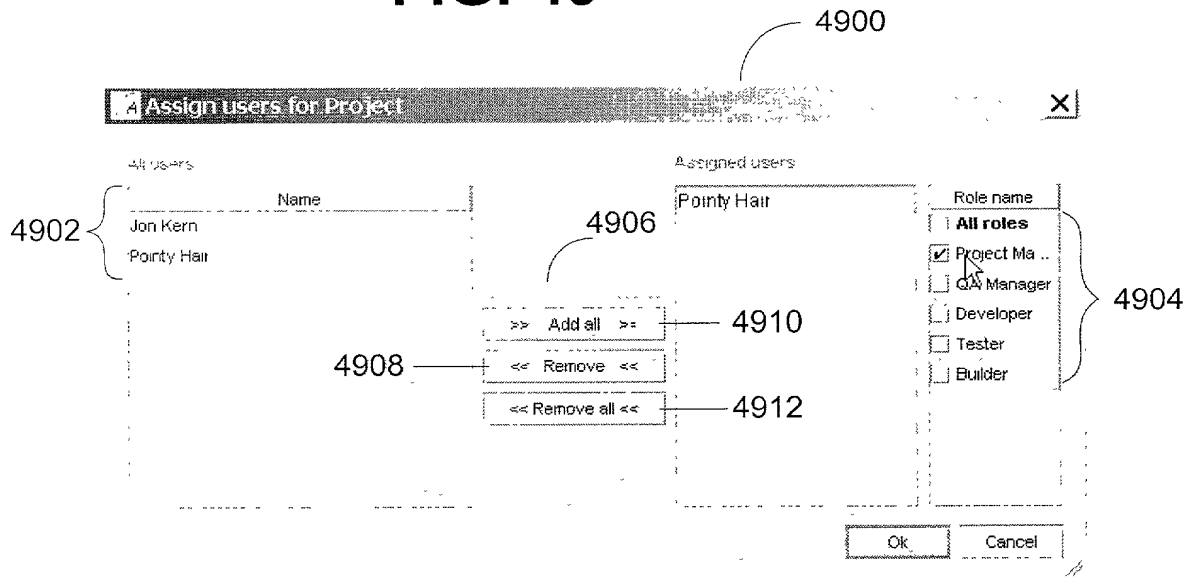


FIG. 50

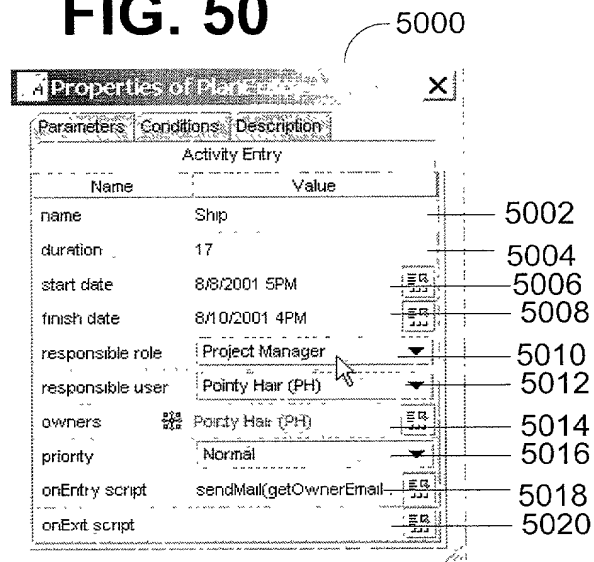


FIG. 51

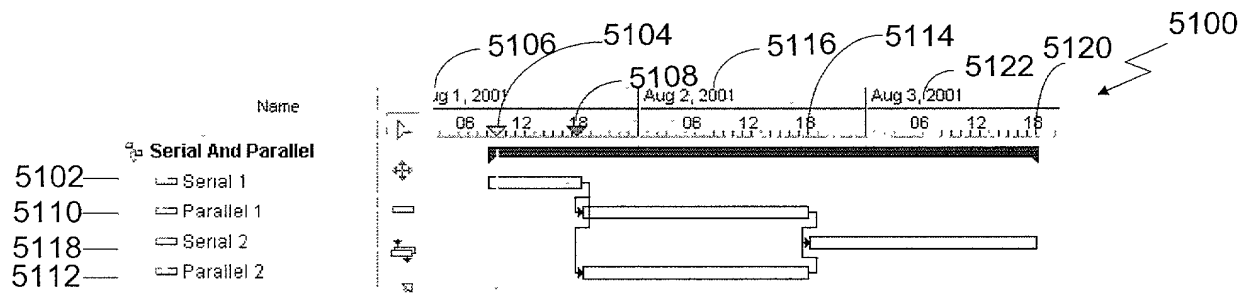


FIG. 52

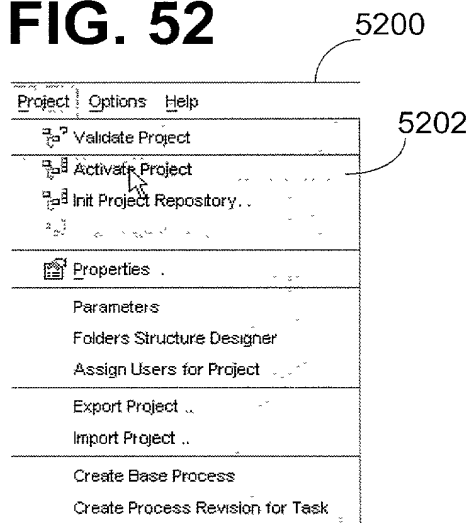


FIG. 53

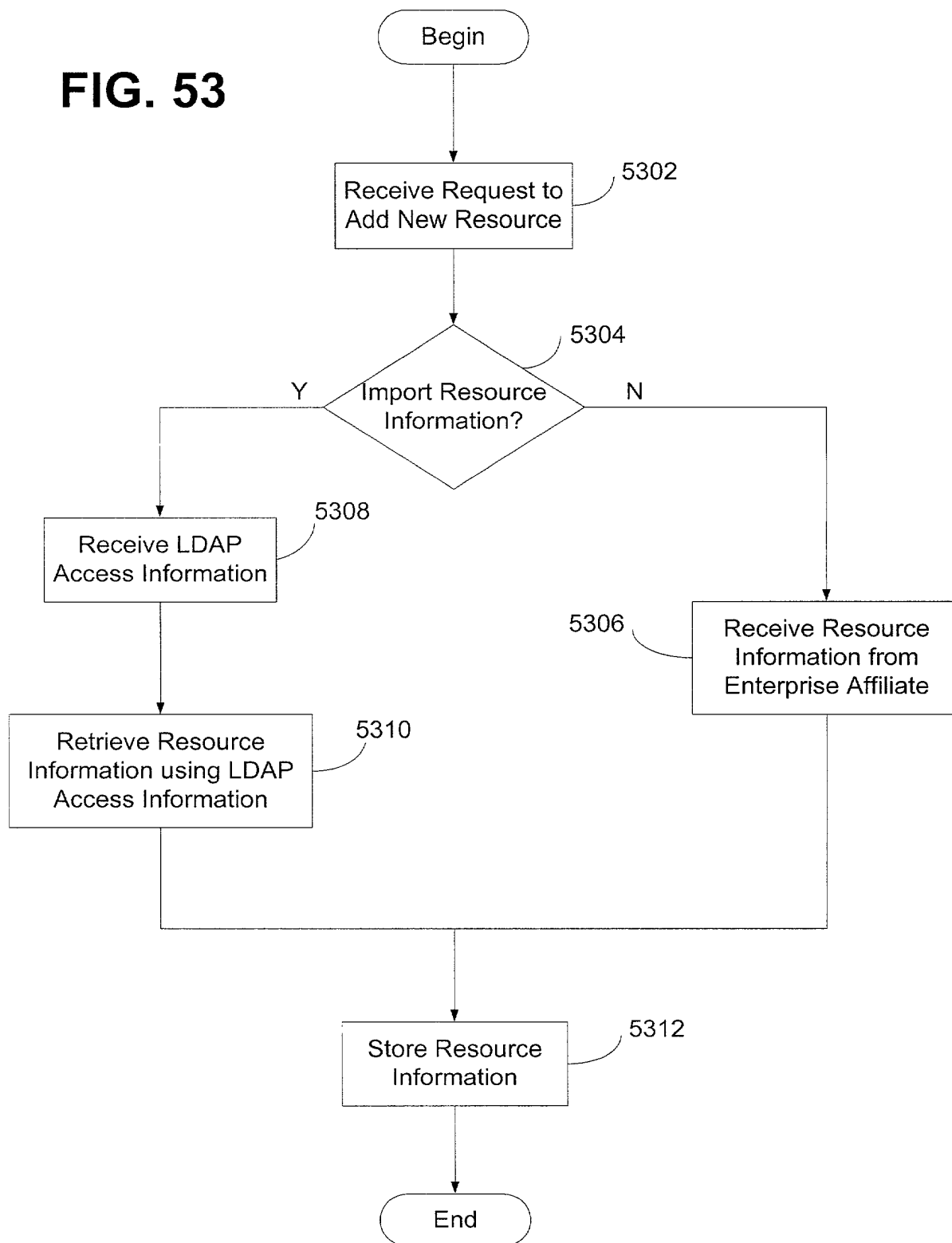


FIG. 54

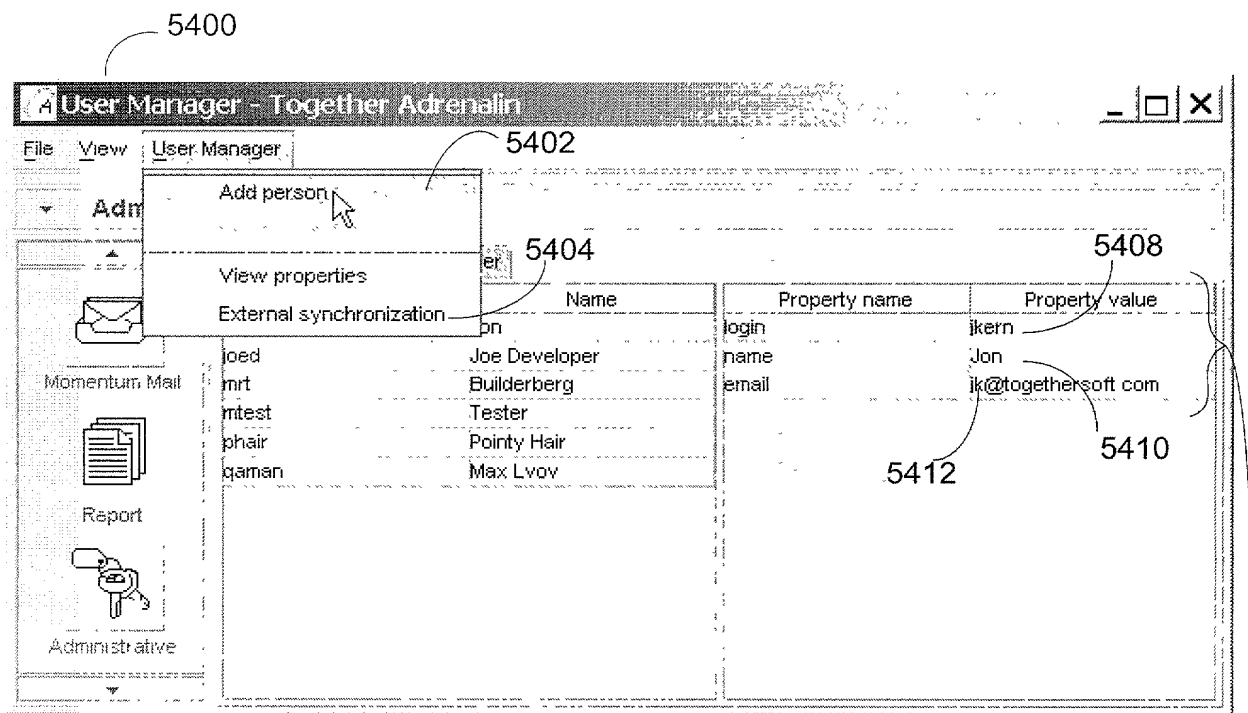


FIG. 55

5500

External synchronization

New: 389

5502 { LDAP Server — 5504 frodo
LDAP Port — 5506 389
People DN — 5508 OU=LOCAL USERS, DC=amazosoft, DC=com

☐ Use password

Security DN — 5510

Password — 5512

Login alias — 5514 mlogin

Add Remove Save Close Synchronize

FIG. 56

5600



```
<?xml version="1.0" encoding="UTF-8" ?>
<users>
  <user>
    <id>PH</id>
    <name>Pointy Hair</name>
    <email>ph@company.com</email>
    <password>ZGV364==</password>
    url= "Software_Projects/Hello-World_App/Users_1.xml"
  </user>
  <user>
    <id>MQ</id>
    <name>Mister Quality</name>
    <email>mq@company.com</email>
    <password>ZGV636==</password>
    url= "Software_Projects/Hello-World_App/Users_1.xml"
  </user>
  <user>
    <id>MB</id>
    <name>Mister Build</name>
    <email>mb@company.com</email>
    <password>ZGV835==</password>
    url= "Software_Projects/Hello-World_App/Users_1.xml"
  </user>
  <user>
    <id>MT</id>
    <name>Mister Tee</name>
    <email>mt@company.com</email>
    <password>ZGV470==</password>
    url= "Software_Projects/Hello-World_App/Users_1.xml"
  </user>
</users>
```

5602 {

5610 {

5612 {

5604 {

5606 {

5608 {

FIG. 57A

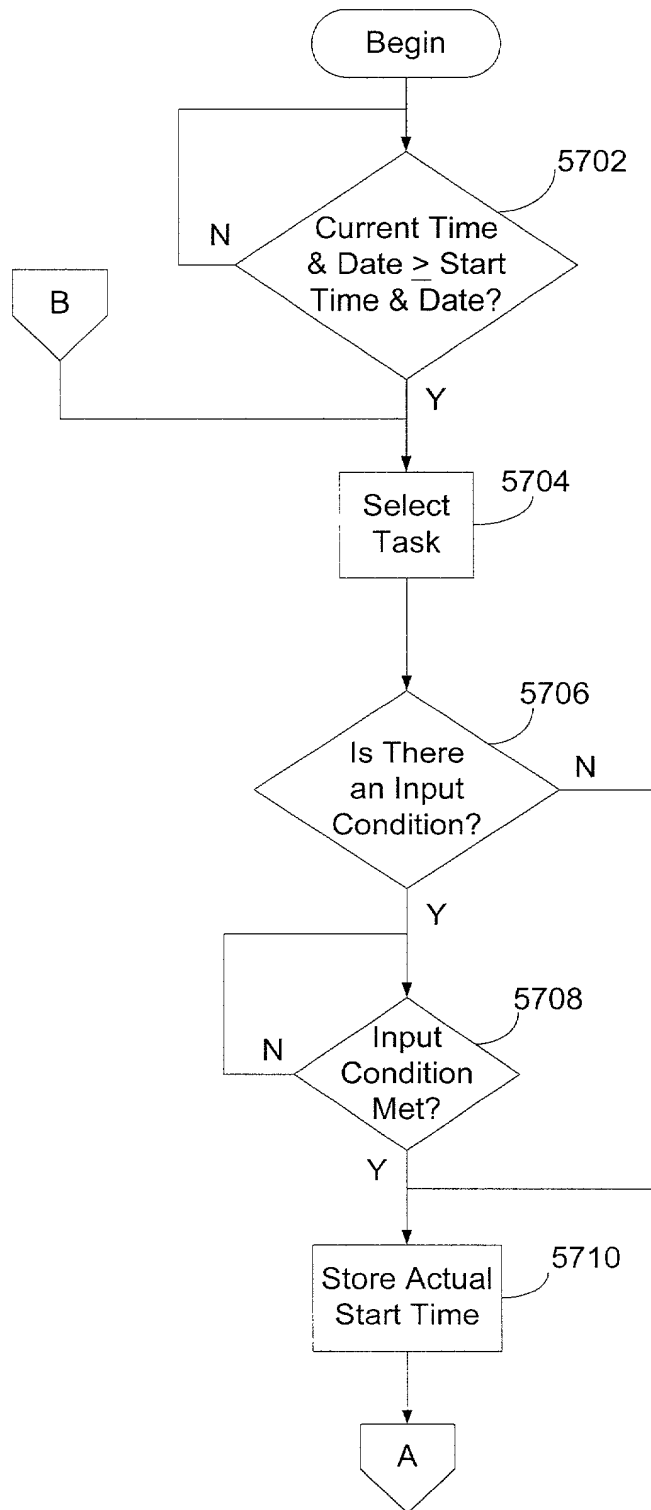


FIG. 57B

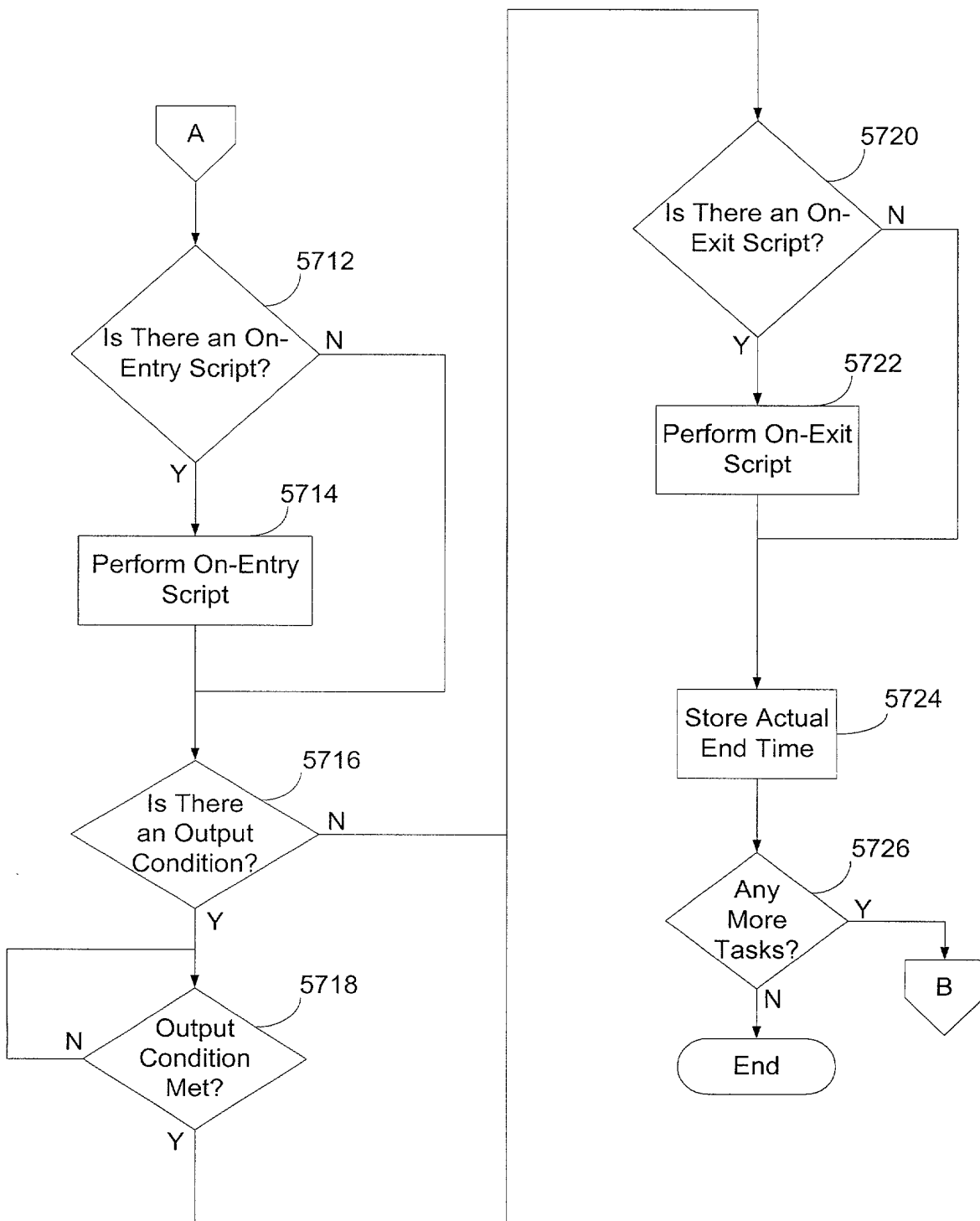


FIG. 58

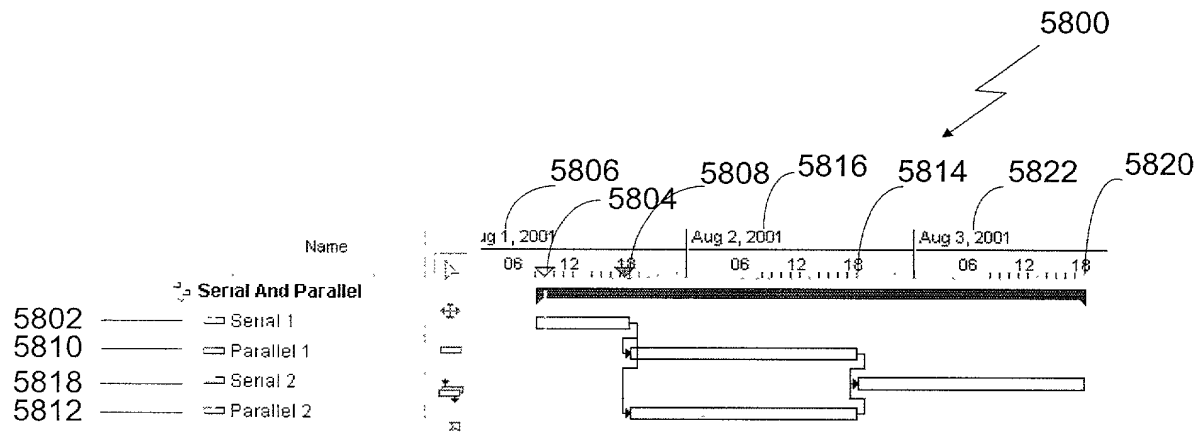


FIG. 59

5900

```
<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
  <A:description>
    <![CDATA[
      No Description
    ]]>
  </A:description>
  <A:task activityID="10" caption="Serial 1"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 8</A:start>
    <A:finish>2001 8 1 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:successor name="Task_3" />
    <A:successor name="Task_4" />
  </A:task>
  <A:task activityID="1523" caption="Parallel 1"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start>
    <A:finish>2001 8 2 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  <A:task activityID="1524" caption="Parallel 2"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 18</A:start>
    <A:finish>2001 8 2 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_5" />
  </A:task>
  <A:task activityID="1526" caption="Serial 2"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 2 18</A:start>
    <A:finish>2001 8 3 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_3" />
    <A:predecessor name="Task_4" />
  </A:task>
  <A:task activityID="NONE" caption="Serial And Parallel"
    link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
    type="general" userid="JK">
    <A:start>2001 8 1 8</A:start>
    <A:finish>2001 8 3 18</A:finish>
    <A:user>JK</A:user>
    <A:subtask name="Task_2" />
```


FIG. 60

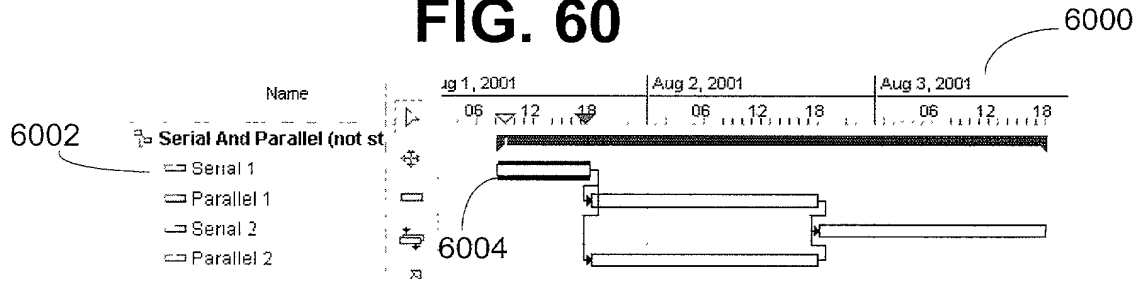


FIG. 61

```
<?xml version="1.0" encoding="UTF-8" ?>
<A:FilePropertyMap xmlns:A="adrenalin:">
  <A:factstart xmlns:A="workflow">2001 8 1 9</A:factstart>
  <A:factfinish xmlns:A="workflow">2001 8 1 14</A:factfinish>
  <A:ProjectTask xmlns:A="Serial 1" />
</A:FilePropertyMap>
```

FIG. 61 shows an XML snippet defining a task structure. The task is named "Serial 1" and is defined within a "FilePropertyMap" element. The task is defined by its start and finish times (2001 8 1 9 to 2001 8 1 14) and is associated with the "Serial 1" project task.

FIG. 62

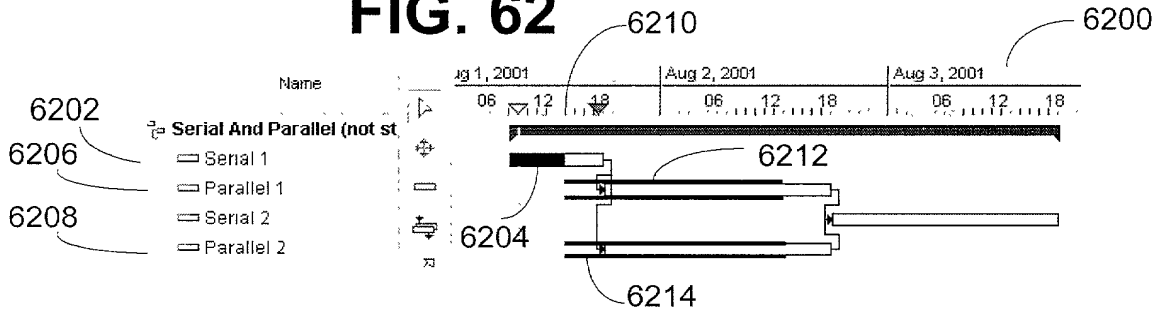


FIG. 63

```
<?xml version="1.0" encoding="UTF-8" ?>
<A:FilePropertyMap xmlns:A="adrenalin:">
  <A:factstart xmlns:A="workflow">2001 8 1 14</A:factstart>
  <A:factfinish xmlns:A="workflow">2001 8 2 0</A:factfinish>
  <A:ProjectTask xmlns:A="Parallel 1" />
  <A:ProjectTask xmlns:A="Parallel 2" />
</A:FilePropertyMap>
```

FIG. 63 shows an XML snippet defining a task structure. The task is named "Parallel 1" and "Parallel 2" and is defined within a "FilePropertyMap" element. The task is defined by its start and finish times (2001 8 1 14 to 2001 8 2 0) and is associated with the "Parallel 1" and "Parallel 2" project tasks.

FIG. 64

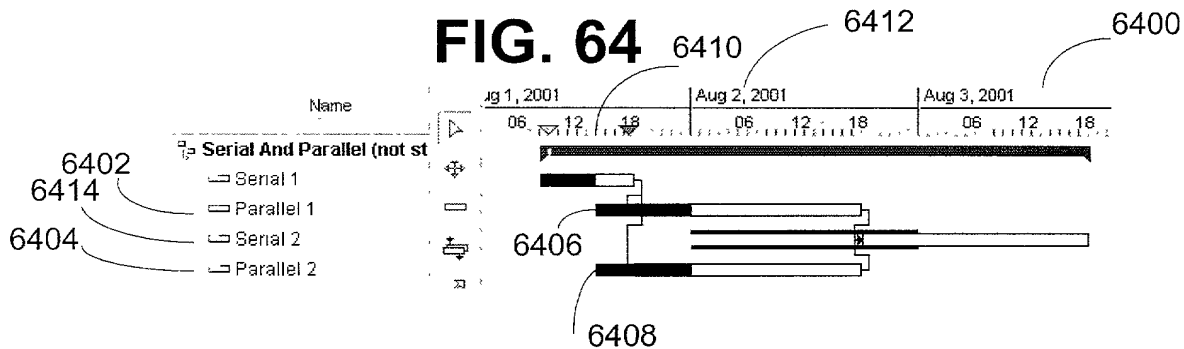


FIG. 65

6500

```
<?xml version="1.0" encoding="UTF-8" ?>
<A:FilePropertyMap xmlns:A="adrenalin:">
  <A:factstart xmlns:A="workflow">2001 8 2 0</A:factstart>
  <A:factfinish xmlns:A="workflow">2001 8 2 12</A:factfinish>
  <A:ProjectTask xmlns:A="Serial 2" />
</A:FilePropertyMap>
```

6504

6506

6502

FIG. 66

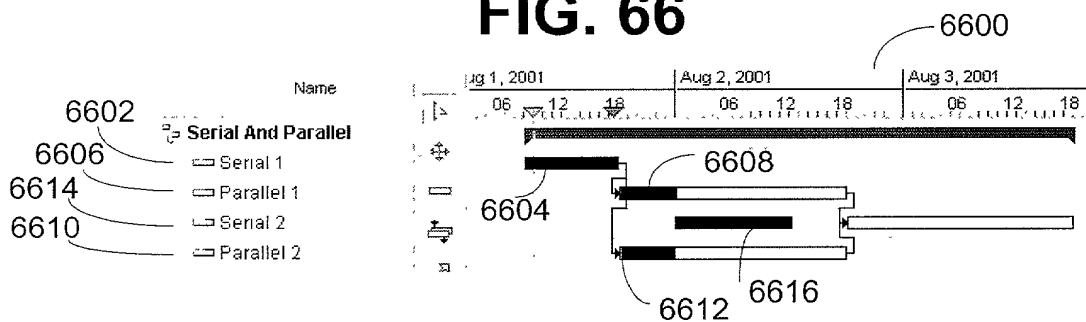


FIG. 67A

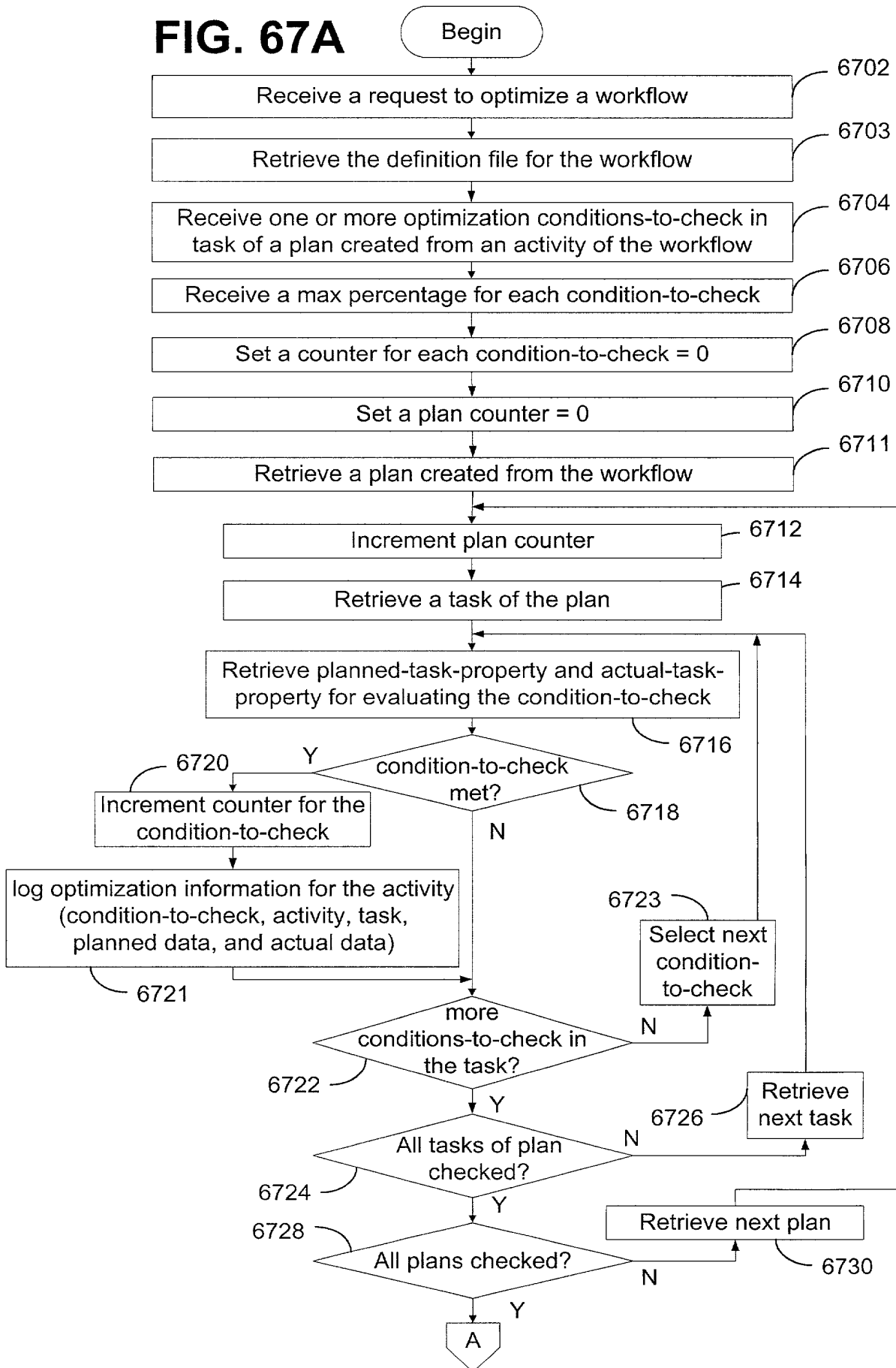


FIG. 67B

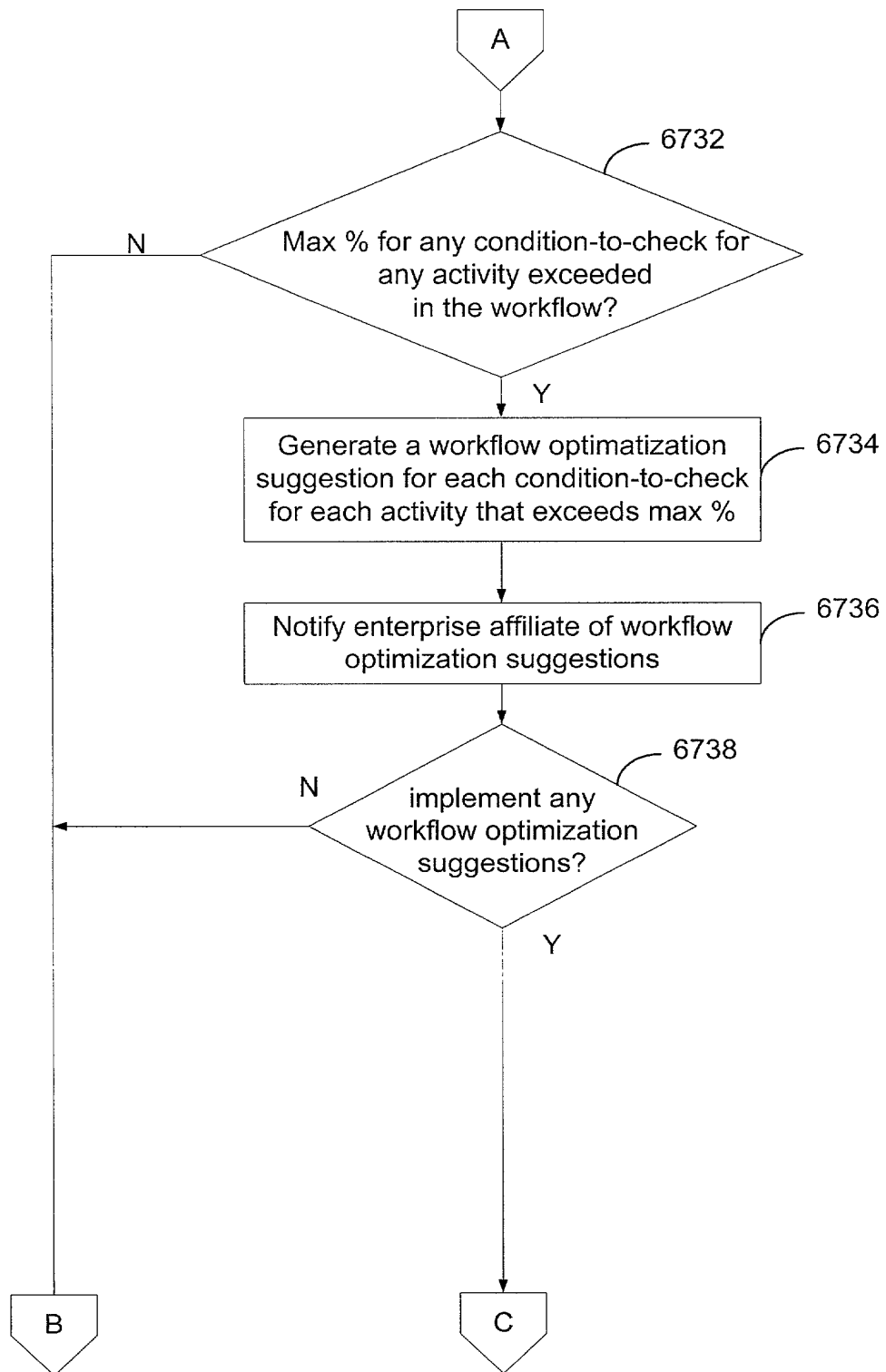
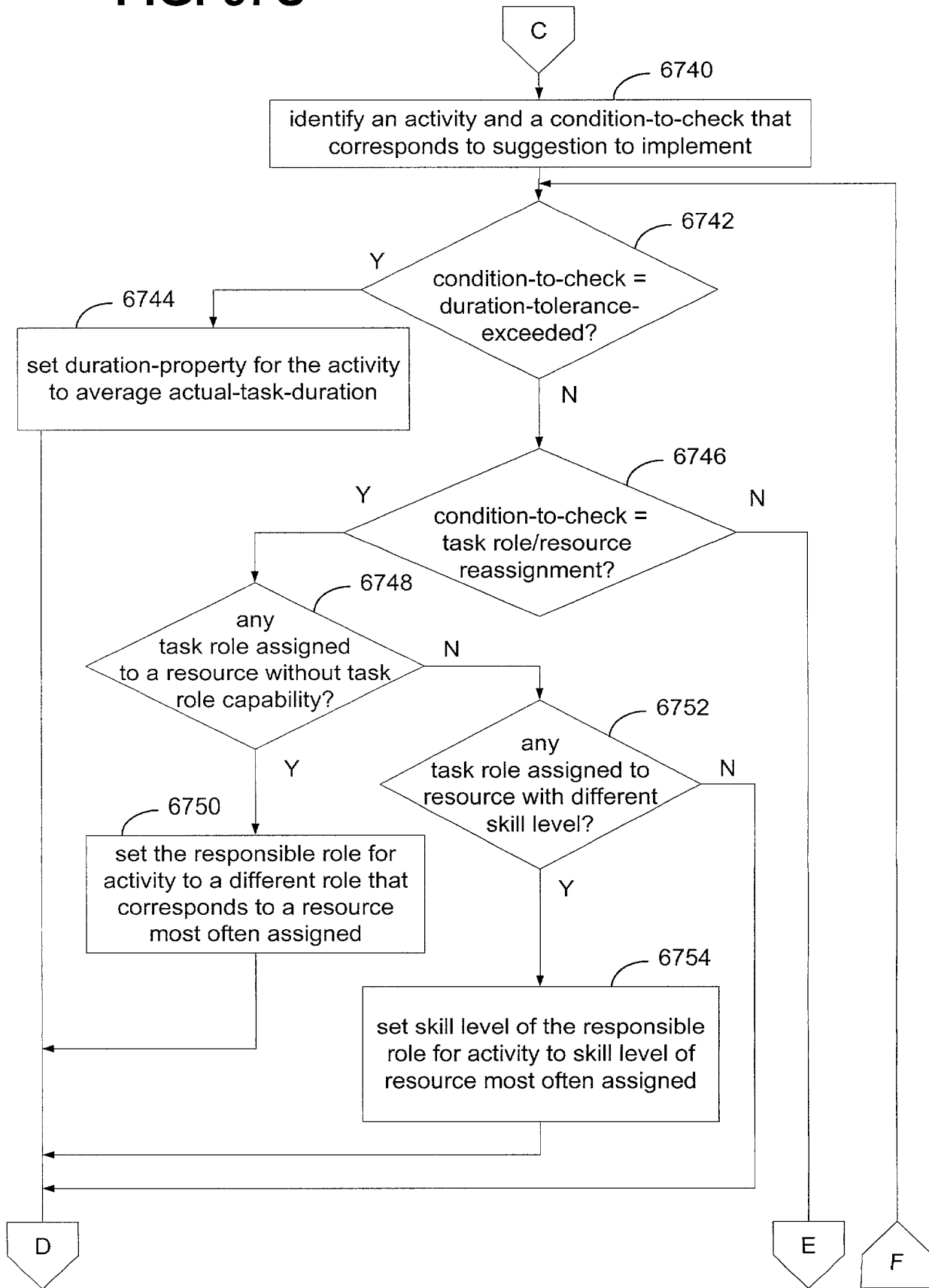


FIG. 67C



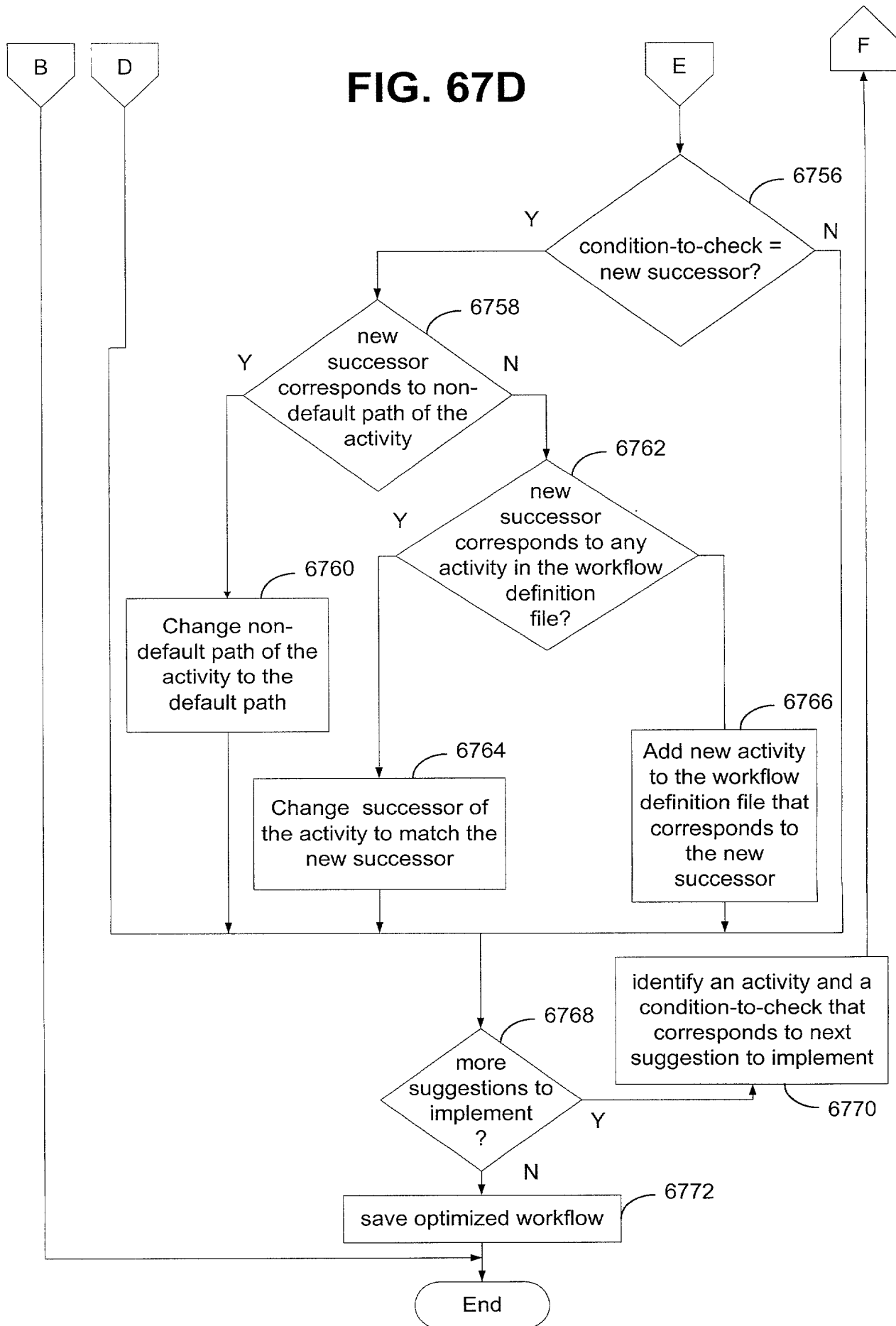


FIG. 68

```

6800
<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
  <description />
  <role name="Assembler" />
  <activity id="10" name="Get Parts" responsible="Assembler" optimize="yes" minplans="5"
    max-percentage="10" />
  <description />
  <defduration units="units" value="1" tolerance="1" optimize="yes" minplans="5" max-
    percentage="10" />
  <predecessors_id id="11" />
  <successors_id id="50" optimize="yes" minplans="5" max-percentage="5" />
  <out_aritfacts id="1527" />
  </activity>
  <activity id="51" name="Left" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="54" />
    <out_aritfacts id="1529" />
  </activity>
  <activity id="54" name="Left Special" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="51" />
    <successors_id id="53" />
    <out_aritfacts id="1531" />
  </activity>
  <activity id="52" name="Right" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="53" />
    <out_aritfacts id="1533" />
  </activity>
  <activity id="53" name="Complete Assembly" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="54" />
    <predecessors_id id="52" />
    <successors_id id="12" />
    <out_aritfacts id="1535" />
  </activity>
  <logic id="50" name="L Or Rt Handed?" responsible="Assembler">
    <description />
    <script>
      <![CDATA[
        approved()
      ]]>
    </script>
    <predecessors_id id="10" />
    <other_path_id id="52" />
    <other_path_id id="51" />
    <defpath_id id="52" optimize="yes" minplans="5" max-percentage="5" />
  </logic>

```

6801 { 6802 { 6808 { 6846 { 6850 { 6842 { 6854 { 6828 { 6838 { 6830 {

6806 6812 6818 6824 6804 6810 6816 6822 6814 6820 6826 6848 6852 6844 6856 6840 6832 6834 6836

FIG. 69

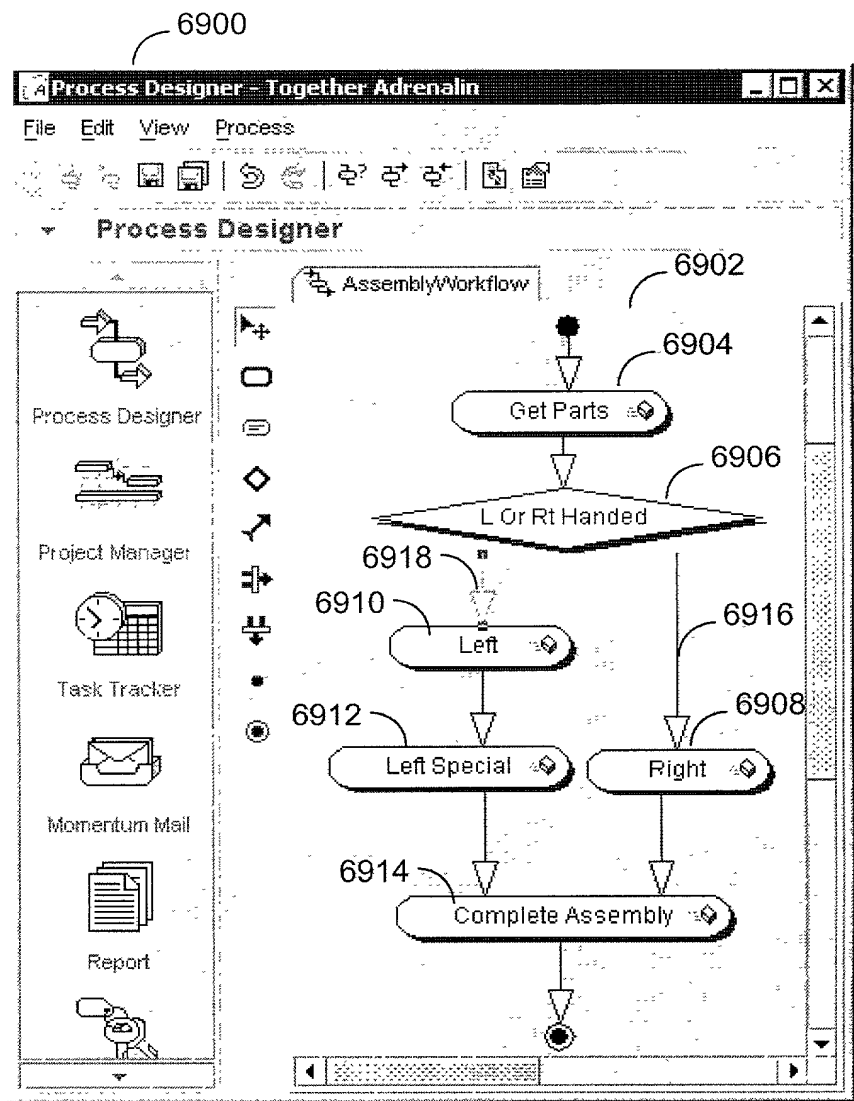


FIG. 70

| Properties | | Property Optimization | |
|-------------------------|-----------------------------|--|---------|
| Name | Value | Otpimization Condition-to-Check | Max % |
| Name | Get Parts | | |
| 7012 Duration | 1 <u>7008</u> | | |
| 7014 Duration Tolerance | 1 <u>7010</u> | | |
| Duration Format | Hours | <input checked="" type="checkbox"/> 7002 Duration Tolerance Exceeded | 10 7024 |
| 7018 Responsible Role | Assembler <u>7016</u> | <input checked="" type="checkbox"/> Role/Resource Reassignment | 10 7026 |
| ⋮ | ⋮ | 7004 ⋮ | ⋮ |
| 7022 Default Successor | L Or Rt Handed? <u>7020</u> | <input checked="" type="checkbox"/> <u>7006</u> New Successor | 5 7028 |
| ⋮ | ⋮ | ⋮ | ⋮ |

FIG. 71A

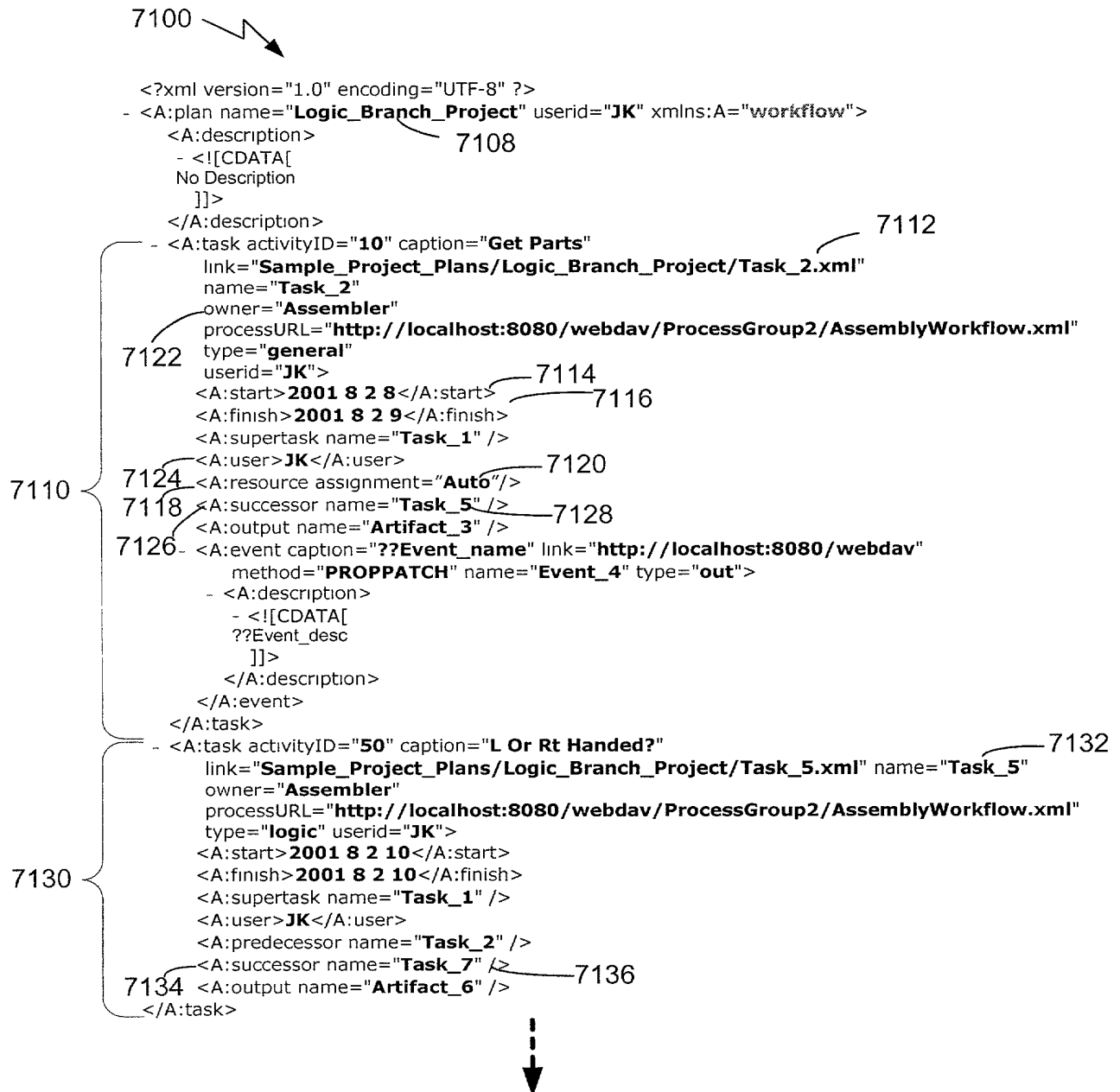


FIG. 71B

7140 {

```

<A:task activityID="52" caption="Right"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_7.xml" name="Task_7"
  owner="Assembler"
  processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 10</A:start>
  <A:finish>2001 8 2 11</A:finish>
  <A:supertask name="Task_1" />
  <A:user>JK</A:user>
  <A:predecessor name="Task_5" />
  <A:successor name="Task_10" />
  <A:output name="Artifact_8" />
  <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_9" type="out">
    <A:description>
      - <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
</A:task>

```

7150 {

```

<A:task activityID="53" caption="Complete Assembly"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
  owner="Assembler"
  processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 11</A:start>
  <A:finish>2001 8 3 11</A:finish>
  <A:supertask name="Task_1" />
  <A:user>JK</A:user>
  <A:predecessor name="Task_7" />
  <A:output name="Artifact_11" />
  <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_12" type="out">
    <A:description>
      - <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
</A:task>

```

7104

```

<A:task activityID="NONE" caption="Logic Branch Project"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
  processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 8</A:start>
  <A:finish>2001 8 3 11</A:finish>
  <A:user>JK</A:user>
  <A:subtask name="Task_2" />
  <A:subtask name="Task_5" />
  <A:subtask name="Task_7" />
  <A:subtask name="Task_10" />
  <A:param name="Document" type="string">
    <A:value>
      - <![CDATA[
        document.txt
      ]]>
    </A:value>
  </A:param>
</A:task>

```

7106

```

<A:artifact caption="Document is APPROVED" link="%Document%" name="Artifact_3"
  optimize="yes" state="APPROVED" />

```

7102

FIG. 72

7202 {
 <?xml version="1.0" encoding="UTF-8" ?>
 <A:FilePropertyMap xmlns:A="adrenalin:">
 <A:factfinish xmlns:A="workflow">2001 8 2 9</A:factfinish> 7206
 <A:factstart xmlns:A="workflow">2001 8 2 8</A:factstart> 7204
 <A:ProjectTask xmlns:A="PROJECT" />
 <A:percent xmlns:A="workflow">100</A:percent>
 <A:state xmlns:A="workflow">ACTIVE</A:state>
 </A:FilePropertyMap>

FIG. 72

| 1990-1991 | | 1991-1992 | | 1992-1993 | | 1993-1994 | | 1994-1995 | | 1995-1996 | | 1996-1997 | | 1997-1998 | | 1998-1999 | | 1999-2000 | | 2000-2001 | | 2001-2002 | | 2002-2003 | | 2003-2004 | | 2004-2005 | | 2005-2006 | | 2006-2007 | | 2007-2008 | | 2008-2009 | | 2009-2010 | | 2010-2011 | | 2011-2012 | | 2012-2013 | | 2013-2014 | | 2014-2015 | | 2015-2016 | | 2016-2017 | | 2017-2018 | | 2018-2019 | | 2019-2020 | | 2020-2021 | | 2021-2022 | | 2022-2023 | | 2023-2024 | | 2024-2025 | | 2025-2026 | | 2026-2027 | | 2027-2028 | | 2028-2029 | | 2029-2030 | | 2030-2031 | | 2031-2032 | | 2032-2033 | | 2033-2034 | | 2034-2035 | | 2035-2036 | | 2036-2037 | | 2037-2038 | | 2038-2039 | | 2039-2040 | | 2040-2041 | | 2041-2042 | | 2042-2043 | | 2043-2044 | | 2044-2045 | | 2045-2046 | | 2046-2047 | | 2047-2048 | | 2048-2049 | | 2049-2050 | | 2050-2051 | | 2051-2052 | | 2052-2053 | | 2053-2054 | | 2054-2055 | | 2055-2056 | | 2056-2057 | | 2057-2058 | | 2058-2059 | | 2059-2060 | | 2060-2061 | | 2061-2062 | | 2062-2063 | | 2063-2064 | | 2064-2065 | | 2065-2066 | | 2066-2067 | | 2067-2068 | | 2068-2069 | | 2069-2070 | | 2070-2071 | | 2071-2072 | | 2072-2073 | | 2073-2074 | | 2074-2075 | | 2075-2076 | | 2076-2077 | | 2077-2078 | | 2078-2079 | | 2079-2080 | | 2080-2081 | | 2081-2082 | | 2082-2083 | | 2083-2084 | | 2084-2085 | | 2085-2086 | | 2086-2087 | | 2087-2088 | | 2088-2089 | | 2089-2090 | | 2090-2091 | | 2091-2092 | | 2092-2093 | | 2093-2094 | | 2094-2095 | | 2095-2096 | | 2096-2097 | | 2097-2098 | | 2098-2099 | | 2099-2100 | | 2100-2101 | | 2101-2102 | | 2102-2103 | | 2103-2104 | | 2104-2105 | | 2105-2106 | | 2106-2107 | | 2107-2108 | | 2108-2109 | | 2109-2110 | | 2110-2111 | | 2111-2112 | | 2112-2113 | | 2113-2114 | | 2114-2115 | | 2115-2116 | | 2116-2117 | | 2117-2118 | | 2118-2119 | | 2119-2120 | | 2120-2121 | | 2121-2122 | | 2122-2123 | | 2123-2124 | | 2124-2125 | | 2125-2126 | | 2126-2127 | | 2127-2128 | | 2128-2129 | | 2129-2130 | | 2130-2131 | | 2131-2132 | | 2132-2133 | | 2133-2134 | | 2134-2135 | | 2135-2136 | | 2136-2137 | | 2137-2138 | | 2138-2139 | | 2139-2140 | | 2140-2141 | | 2141-2142 | | 2142-2143 | | 2143-2144 | | 2144-2145 | | 2145-2146 | | 2146-2147 | | 2147-2148 | | 2148-2149 | | 2149-2150 | | 2150-2151 | | 2151-2152 | | 2152-2153 | | 2153-2154 | | 2154-2155 | | 2155-2156 | | 2156-2157 | | 2157-2158 | | 2158-2159 | | 2159-2160 | | 2160-2161 | | 2161-2162 | | 2162-2163 | | 2163-2164 | | 2164-2165 | | 2165-2166 | | 2166-2167 | | 2167-2168 | | 2168-2169 | | 2169-2170 | | 2170-2171 | | 2171-2172 | | 2172-2173 | | 2173-2174 | | 2174-2175 | | 2175-2176 | | 2176-2177 | | 2177-2178 | | 2178-2179 | | 2179-2180 | | 2180-2181 | | 2181-2182 | | 2182-2183 | | 2183-2184 | | 2184-2185 | | 2185-2186 | | 2186-2187 | | 2187-2188 | | 2188-2189 | | 2189-2190 | | 2190-2191 | | 2191-2192 | | 2192-2193 | | 2193-2194 | | 2194-2195 | | 2195-2196 | | 2196-2197 | | 2197-2198 | | 2198-2199 | | 2199-2200 | | 2200-2201 | | 2201-2202 | | 2202-2203 | | 2203-2204 | | 2204-2205 | | 2205-2206 | | 2206-2207 | | 2207-2208 | | 2208-2209 | | 2209-2210 | | 2210-2211 | | 2211-2212 | | 2212-2213 | | 2213-2214 | | 2214-2215 | | 2215-2216 | | 2216-2217 | |
|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|
|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|

```
<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Logic_Branch_Project" userid="JK" xmlns:A="workflow">
- <A:description>
- <![CDATA[
No Description
]]>
</A:description>
- <A:task activityID="10" caption="Get Parts"
link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
name="Task_2"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="general"
userid="MG">
<A:start>2001 8 2 8</A:start>
<A:finish>2001 8 2 10</A:finish>
<A:supertask name="Task_1" />
<A:user>MG</A:user>
<A:resource assignment="Manual"/>
<A:successor name="Task_5" />
<A:output name="Artifact_3" />
- <A:event caption="??Event_name" link="http://localhost:8080/webdav"
method="PROPPATCH" name="Event_4" type="out">
<A:description>
- <![CDATA[
??Event_desc
]]>
</A:description>
</A:event>
</A:task>
- <A:task activityID="50" caption="L Or Rt Handed?"
link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
owner="Assembler"
processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
type="logic" userid="JK">
<A:start>2001 8 2 10</A:start>
<A:finish>2001 8 2 10</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_2" />
<A:successor name="Task_16" />
<A:output name="Artifact_6" />
</A:task>
```

FIG. 73B

7350

```

<A:task activityID="53" caption="Complete Assembly"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
  owner="Assembler"
  processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 16</A:start>
  <A:finish>2001 8 3 16</A:finish>
  <A:supertask name="Task_1" />
  <A:user>JK</A:user>
  <A:predecessor name="Task_19" />
  <A:output name="Artifact_11" />
  <A:output name="Artifact_22" />
  <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_15" type="out">
    <A:description>
      <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
  <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_23" type="out">
    <A:description>
      <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
</A:task>
<A:task activityID="NONE" caption="Logic Branch Project"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
  processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 8</A:start>
  <A:finish>2001 8 3 16</A:finish>
  <A:user>JK</A:user>
  <A:subtask name="Task_2" />
  <A:subtask name="Task_5" />
  <A:subtask name="Task_10" />
  <A:subtask name="Task_16" />
  <A:subtask name="Task_19" />
  <A:param name="Document" type="string">
    <A:value>
      <![CDATA[
        document.txt
      ]]>
    </A:value>
  </A:param>
</A:task>

```

00945081 083404

00945081 083404

FIG. 73C

7340 {

```

<A:task activityID="51" caption="Left"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_16.xml" name="Task_16"
  owner="Assembler"
  processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 10</A:start>
  <A:finish>2001 8 2 11</A:finish>
  <A:supertask name="Task_1" />
  <A:user>JK</A:user>
  <A:predecessor name="Task_5" />
  <A:successor name="Task_19" />
  <A:output name="Artifact_17" />
  <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_18" type="out">
    <A:description>
      - <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
</A:task>

```

7342

7360 {

```

<A:task activityID="54" caption="Left Special"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_19.xml" name="Task_19"
  owner="Assembler"
  processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 11</A:start>
  <A:finish>2001 8 2 16</A:finish>
  <A:supertask name="Task_1" />
  <A:user>JK</A:user>
  <A:predecessor name="Task_16" />
  <A:successor name="Task_10" />
  <A:output name="Artifact_20" />
  <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_21" type="out">
    <A:description>
      - <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
</A:task>
<A:artifact caption="Document is APPROVED" link="%Document%" name="Artifact_3"
  optimize="yes" state="APPROVED" />
<A:artifact caption="automatic_generated" name="Artifact_6" optimize="no">
  <A:script>
    - <![CDATA[
      approved()
    ]]>
  </A:script>
</A:artifact>

```

FIG. 74

7402 {
 <?xml version="1.0" encoding="UTF-8" ?>
 <A:FilePropertyMap xmlns:A="adrenalin:">
 <A:factfinish xmlns:A="workflow">2001 8 3 12</A:factfinish> 7406
 <A:factstart xmlns:A="workflow">2001 8 2 8</A:factstart> 7404
 <A:ProjectTask xmlns:A="PROJECT" />
 <A:percent xmlns:A="workflow">100</A:percent>
 <A:state xmlns:A="workflow">ACTIVE</A:state>
 </A:FilePropertyMap>

10054500 10054500

FIG. 75

7500

7501

```

<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
  <description />
  <role name="Assembler" />
  <activity id="10" name="Get Parts" responsible="Assembler" optimize="yes" minplans="5"
    max-percentage="10">
    <description />
    <duration units="units" value="4" tolerance="1" optimize="yes" minplans="5" max-
      percentage="10"/>
    <predecessors_id id="11" />
    <successors_id id="50" optimize="yes" minplans="5" max-percentage="5"/>
    <out_artifacts id="1527" />
  </activity>
  <activity id="51" name="Left" responsible="Assembler">
    <description />
    <duration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="54" />
    <out_artifacts id="1529" />
  </activity>
  <activity id="54" name="Left Special" responsible="Assembler">
    <description />
    <duration units="units" value="1" />
    <predecessors_id id="51" />
    <successors_id id="53" />
    <out_artifacts id="1531" />
  </activity>
  <activity id="52" name="Right" responsible="Assembler">
    <description />
    <duration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="53" />
    <out_artifacts id="1533" />
  </activity>
  <activity id="53" name="Complete Assembly" responsible="Assembler">
    <description />
    <duration units="units" value="1" />
    <predecessors_id id="54" />
    <predecessors_id id="52" />
    <successors_id id="12" />
    <out_artifacts id="1535" />
  </activity>
  <logic id="50" name="L or Rt Handed?" responsible="Assembler">
    <description />
    <script>
      <![CDATA[
        approved()
      ]]>
    </script>
    <predecessors_id id="10" />
    <other_path_id id="52" />
    <other_path_id id="51" />
    <defpath_id id="52" />
  </logic>

```



FIG. 76

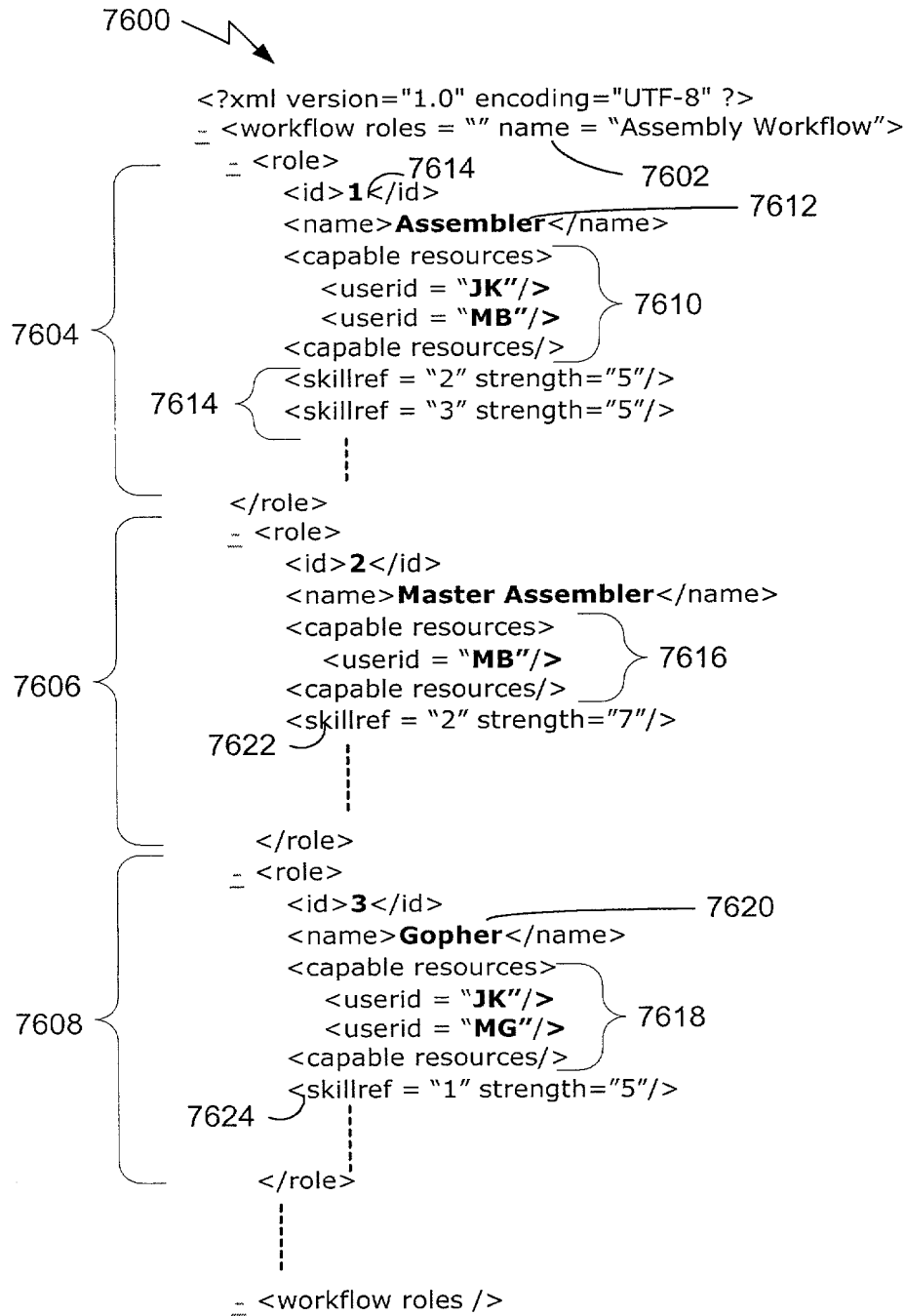


FIG. 77

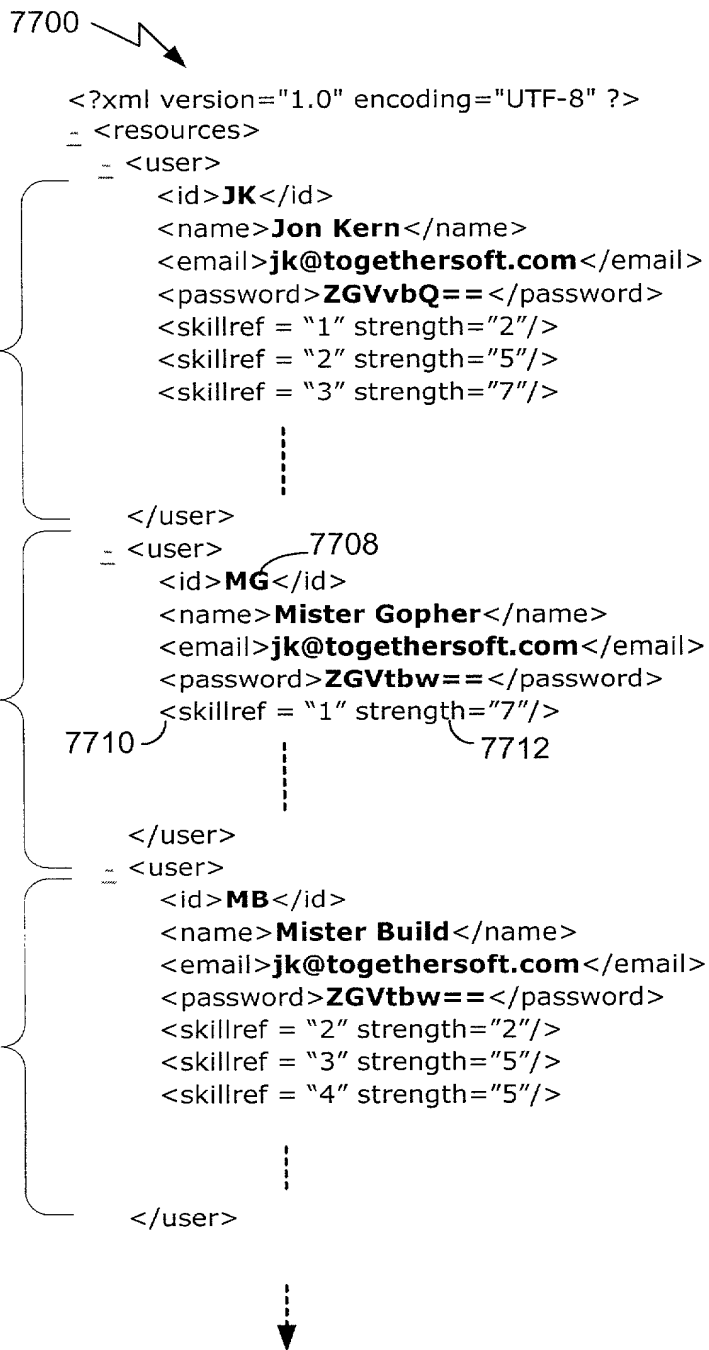


FIG. 78

7800

```

<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
  <description />
  <role name="Assembler" />
  <role name="Gopher" />
  <activity id="10" name="Get Parts" responsible="Gopher" optimize = "yes" minplans = "5" max-
    percentage = "10">
    <description />
    <defduration units="units" value="4" tolerance = "1" optimize = "yes" minplans = "5" max-
      percentage = "10"/>
    <predecessors_id id="11" />
    <successors_id id="50" optimize = "yes" minplans = "5" max-percentage = "5"/>
    <out_aritfacts id="1527" />
  </activity>
  <activity id="51" name="Left" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="54" />
    <out_aritfacts id="1529" />
  </activity>
  <activity id="54" name="Left Special" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="51" />
    <successors_id id="53" />
    <out_aritfacts id="1531" />
  </activity>
  <activity id="52" name="Right" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="53" />
    <out_aritfacts id="1533" />
  </activity>
  <activity id="53" name="Complete Assembly" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="54" />
    <predecessors_id id="52" />
    <successors_id id="12" />
    <out_aritfacts id="1535" />
  </activity>

```

```

<logic id="50" name="L or Rt Handed?" responsible="Assembler">
  <description />
  <script>
    <![CDATA[
      approved()
    ]]>
  </script>
  <predecessors_id id="10" />
  <other_path_id id="52" />
  <other_path_id id="51" />
  <defpath_id id="51" optimize = "yes" minplans = "5" max-percentage = "5" />
</logic>

```

004500 10054600

FIG. 79

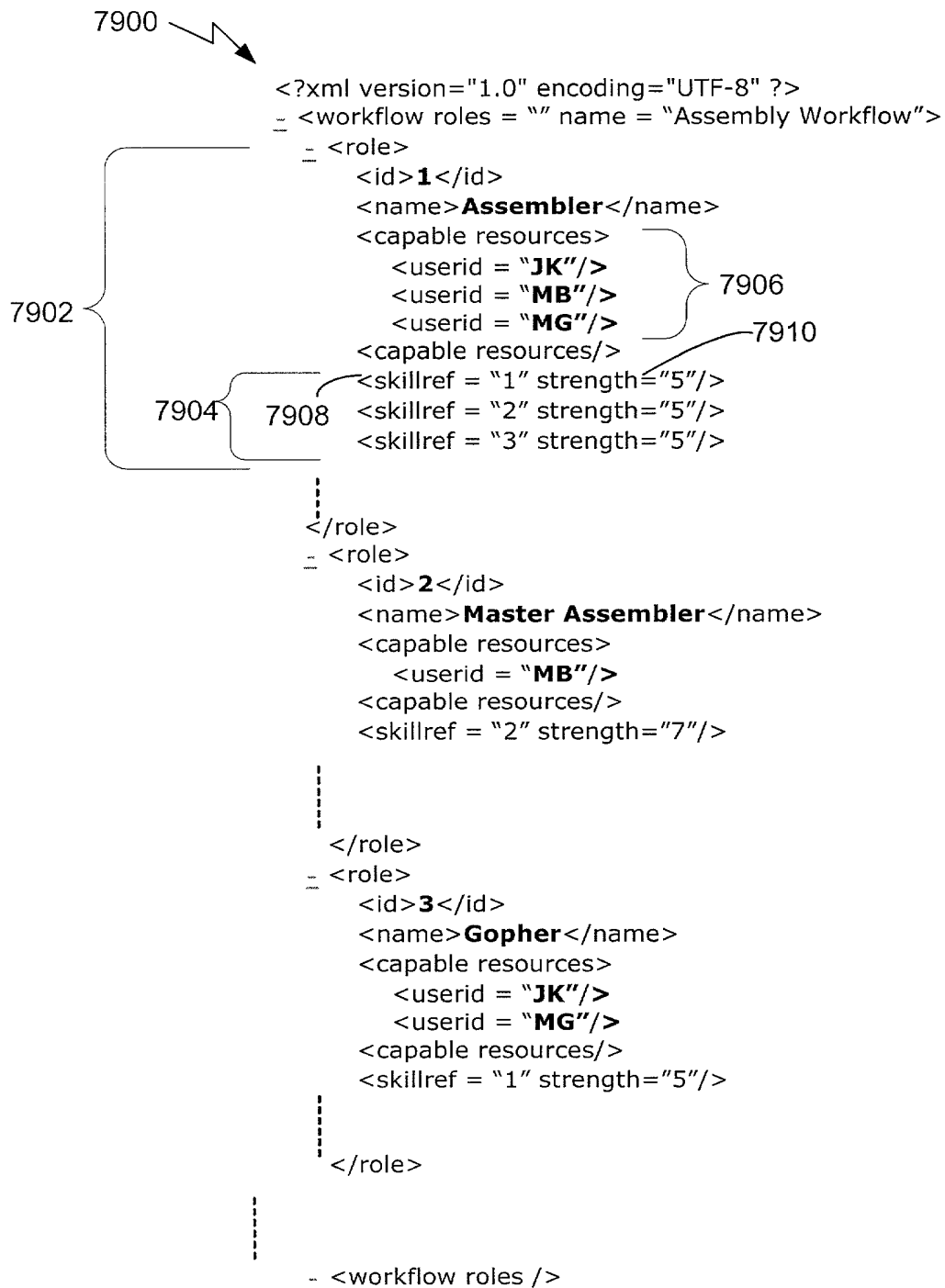


FIG. 80

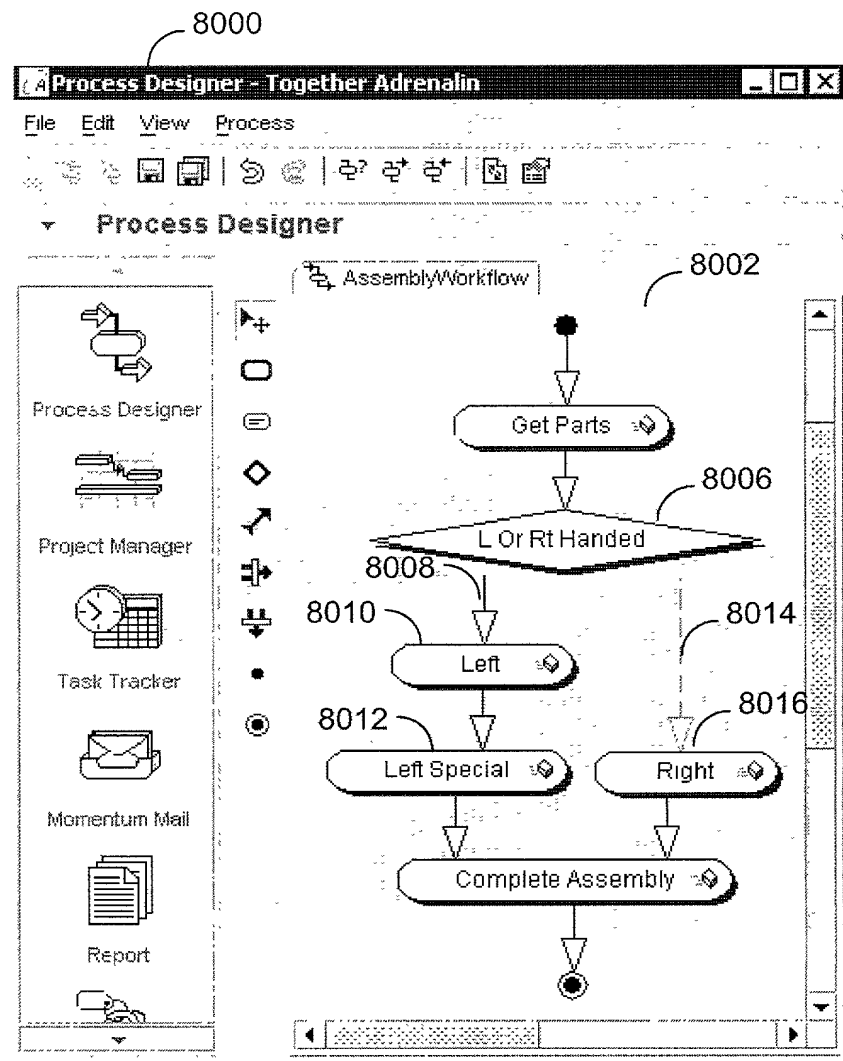


FIG. 81A

8100

```

<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Logic_Branch_Project" userid="JK" xmlns:A="workflow">
  - <A:description>
    - <![CDATA[
      No Description
    ]]>
  </A:description>
  - <A:task activityID="10" caption="Get Parts"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
    name="Task_2"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="general"
    userid="MG">
    <A:start>2001 8 2 8</A:start>
    <A:finish>2001 8 2 10</A:finish>
    <A:supertask name="Task_1" />
    <A:user>MG</A:user>
    <A:resource assignment="Manual"/>
    <A:successor name="Task_5" />
    <A:output name="Artifact_3" />
    - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_4" type="out">
      <A:description>
        - <![CDATA[
          ??Event_desc
        ]]>
      </A:description>
    </A:event>
  </A:task>
  - <A:task activityID="50" caption="L Or Rt Handed?"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="logic" userid="JK">
    <A:start>2001 8 2 10</A:start>
    <A:finish>2001 8 2 10</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <A:successor name="Task_19" />
    <A:output name="Artifact_6" />
  </A:task>

```

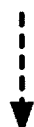


FIG. 81A

[illegible]

```

- <A:task activityID="53" caption="Complete Assembly"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
  owner="Assembler"
  processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 16</A:start>
  <A:finish>2001 8 3 16</A:finish>
  <A:supertask name="Task_1" />
  <A:user>JK</A:user>
  <A:predecessor name="Task_19" />
  <A:output name="Artifact_11" />
  <A:output name="Artifact_22" />
  - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_15" type="out">
    - <A:description>
      - <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
  - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
    method="PROPPATCH" name="Event_23" type="out">
    - <A:description>
      - <![CDATA[
        ??Event_desc
      ]]>
    </A:description>
  </A:event>
</A:task>
- <A:task activityID="NONE" caption="Logic Branch Project"
  link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
  processURL="http://localhost:8080/webdav/ProcessGroup2/Process3.xml"
  type="general" userid="JK">
  <A:start>2001 8 2 8</A:start>
  <A:finish>2001 8 3 16</A:finish>
  <A:user>JK</A:user>
  <A:subtask name="Task_2" />
  <A:subtask name="Task_5" />
  <A:subtask name="Task_10" />
  <A:subtask name="Task_16" />
  <A:subtask name="Task_19" />
  - <A:param name="Document" type="string">
    - <A:value>
      - <![CDATA[
        document txt
      ]]>
    </A:value>
  </A:param>
</A:task>

```


[illegible]

FIG. 82

8200

```

<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
  <description />
  <role name="Assembler" />
  <role name="Gopher" />
  <activity id="10" name="Get Parts" responsible="Gopher" optimize = "yes" minplans = "5" max-
    percentage = "10"/>
  <description />
  <defduration units="units" value="4" tolerance = "1" optimize = "yes" minplans = "5" max-
    percentage = "10"/>
  <predecessors_id id="11" />
  <successors_id id="50" optimize = "yes" minplans = "5" max-percentage = "5"/>
  <out_aritfacts id="1527" />
  </activity>
  <activity id="54" name="Left Special" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="53" />
    <out_aritfacts id="1531" />
  </activity>
  <activity id="52" name="Right" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="53" />
    <out_aritfacts id="1533" />
  </activity>
  <activity id="53" name="Complete Assembly" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="54" />
    <predecessors_id id="52" />
    <successors_id id="12" />
    <out_aritfacts id="1535" />
  </activity>

```

⋮

```

<logic id="50" name="L or Rt Handed?" responsible="Assembler">
  <description />
  <script>
    - <![CDATA[
      approved()
    ]]>
  </script>
  <predecessors_id id="10" />
  <other_path_id id="52" />
  <other_path_id id="54" />
  <defpath_id id="54" optimize = "yes" minplans = "5" max-percentage = "5" />
</logic>

```

⋮

FIG. 83

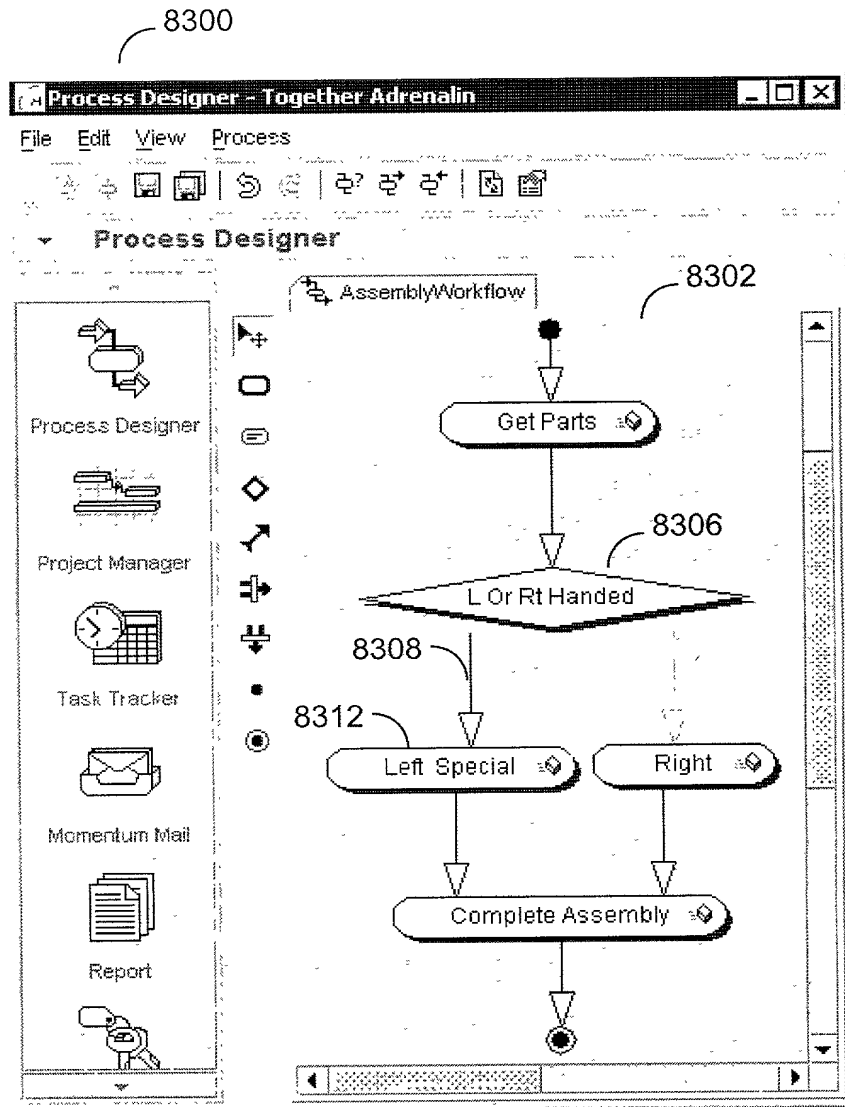


FIG. 84A

8400

```

<?xml version="1.0" encoding="UTF-8" ?>
- <A:plan name="Logic_Branch_Project" userid="JK" xmlns:A="workflow">
  - <A:description>
    - <![CDATA[
      No Description
    ]]>
  </A:description>
  - <A:task activityID="10" caption="Get Parts"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_2.xml"
    name="Task_2"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="general"
    userid="MG">
    <A:start>2001 8 7 8</A:start>
    <A:finish>2001 8 7 10</A:finish>
    <A:supertask name="Task_1" />
    <A:user>MG</A:user>
    <A:resource assignment="Manual"/>
    <A:successor name="Task_20" />
    <A:output name="Artifact_3" />
    - <A:event caption="??Event_name" link="http://localhost:8080/webdav"
      method="PROPPATCH" name="Event_4" type="out">
      - <A:description>
        - <![CDATA[
          ??Event_desc
        ]]>
      </A:description>
    </A:event>
  </A:task>
  - <A:task activityID="50" caption="L Or Rt Handed?"
    link="Sample_Project_Plans/Logic_Branch_Project/Task_5.xml" name="Task_5"
    owner="Assembler"
    processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
    type="logic" userid="JK">
    <A:start>2001 8 7 11</A:start>
    <A:finish>2001 8 7 11</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_20" />
    <A:successor name="Task_7" />
    <A:output name="Artifact_6" />
  </A:task>

```

8410

8418

8426

8420

FIG. 84A

FIG. 84B

```

8430 {
    <A:task activityID="53" caption="Complete Assembly"
        link="Sample_Project_Plans/Logic_Branch_Project/Task_10.xml" name="Task_10"
        owner="Assembler"
        processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
        type="general" userid="JK">
        <A:start>2001 8 7 13</A:start>
        <A:finish>2001 8 7 14</A:finish>
        <A:supertask name="Task_1" />
        <A:user>JK</A:user>
        <A:predecessor name="Task_19" />
        <A:output name="Artifact_11" />
        <A:output name="Artifact_22" />
        <A:event caption="??Event_name" link="http://localhost:8080/webdav"
            method="PROPPATCH" name="Event_15" type="out">
            <A:description>
                <![CDATA[
                    ??Event_desc
                ]]>
            </A:description>
        </A:event>
        <A:event caption="??Event_name" link="http://localhost:8080/webdav"
            method="PROPPATCH" name="Event_23" type="out">
            <A:description>
                <![CDATA[
                    ??Event_desc
                ]]>
            </A:description>
        </A:event>
    </A:task>
8440 {
    <A:task activityID="NONE" caption="Logic Branch Project"
        link="Sample_Project_Plans/Logic_Branch_Project/Task_1.xml" name="Task_1"
        processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
        type="general" userid="JK">
        <A:start>2001 8 7 8</A:start>
        <A:finish>2001 8 7 14</A:finish>
        <A:user>JK</A:user>
        <A:subtask name="Task_2" />
        <A:subtask name="Task_20" />
        <A:subtask name="Task_5" />
        <A:subtask name="Task_10" />
        <A:subtask name="Task_16" />
        <A:subtask name="Task_19" />
        <A:param name="Document" type="string">
            <A:value>
                <![CDATA[
                    document.txt
                ]]>
            </A:value>
        </A:param>
    </A:task>

```

FIG. 84C

8450 {
 <A:task activityID="51" caption="Left"
 link="Sample_Project_Plans/Logic_Branch_Project/Task_16.xml" name="Task_16"
 owner="Assembler"
 processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
 type="general" userid="JK">
 <A:start>2001 8 7 11</A:start>
 <A:finish>2001 8 7 12</A:finish>
 <A:supertask name="Task_1" />
 <A:user>JK</A:user>
 <A:predecessor name="Task_5" />
 <A:successor name="Task_19" />
 <A:output name="Artifact_17" />
 <A:event caption="??Event_name" link="http://localhost:8080/webdav"
 method="PROPPATCH" name="Event_18" type="out">
 <A:description>
 - <![CDATA[
 ??Event_desc
]]>
 </A:description>
 </A:event>
 </A:task>
 8460 {
 <A:task activityID="54" caption="Left Special"
 link="Sample_Project_Plans/Logic_Branch_Project/Task_19.xml" name="Task_19"
 owner="Assembler"
 processURL="http://localhost:8080/webdav/ProcessGroup2/AssemblyWorkflow.xml"
 type="general" userid="JK">
 <A:start>2001 8 7 12</A:start>
 <A:finish>2001 8 7 13</A:finish>
 <A:supertask name="Task_1" />
 <A:user>JK</A:user>
 <A:predecessor name="Task_16" />
 <A:successor name="Task_10" />
 <A:output name="Artifact_20" />
 <A:event caption="??Event_name" link="http://localhost:8080/webdav"
 method="PROPPATCH" name="Event_21" type="out">
 <A:description>
 - <![CDATA[
 ??Event_desc
]]>
 </A:description>
 </A:event>
 </A:task>
 8470 {
 <A:task caption="Get Fasteners"
 link="Sample_Project_Plans/Logic_Branch_Project/Task_20.xml" name="Task_20"
 owner="Assembler"
 type="general" userid="JK">
 <A:start>2001 8 7 10</A:start>
 <A:finish>2001 8 7 11</A:finish>
 <A:supertask name="Task_1" />
 <A:user>JK</A:user>
 <A:predecessor name="Task_2" />
 <A:successor name="Task_5" />
 <A:output name="Artifact_22" />
 <A:event caption="??Event_name" link="http://localhost:8080/webdav"
 method="PROPPATCH" name="Event_23" type="out">
 <A:description>
 - <![CDATA[
 ??Event_desc
]]>
 </A:description>
 </A:event>
 8472

FIG. 85

8500

```

<?xml version="1.0" encoding="UTF-8" ?>
<process group="" name="Assembly Workflow">
  <description />
  <role name="Assembler" />
  <activity id="10" name="Get Parts" responsible="Assembler" optimize="yes" minplans="5"
    max-percentage="10">
    <description />
    <defduration units="units" value="1" tolerance="1" optimize="yes" minplans="5" max-
      percentage="10"/>
    <predecessors_id id="11" />
    <successors_id id="55" optimize="yes" minplans="5" max-percentage="5"/>
    <out_aritfacts id="1527" />
  </activity>
  <activity id="51" name="Left" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="54" />
    <out_aritfacts id="1529" />
  </activity>
  <activity id="54" name="Left Special" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="51" />
    <successors_id id="53" />
    <out_aritfacts id="1531" />
  </activity>
  <activity id="52" name="Right" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="50" />
    <successors_id id="53" />
    <out_aritfacts id="1533" />
  </activity>
  <activity id="53" name="Complete Assembly" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="54" />
    <predecessors_id id="52" />
    <successors_id id="12" />
    <out_aritfacts id="1535" />
  </activity>
  <activity id="55" name="Get Fasteners" responsible="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="10" />
    <successors_id id="50" />
    <out_aritfacts id="1536" />
  </activity>

  <logic id="50" name="L Or Rt Handed?" responsible="Assembler">
    <description />
    <script>
      <![CDATA[
        approved()
      ]]>
    </script>
    <predecessors_id id="55" />
    <other_path_id id="52" />
    <other_path_id id="51" />
    <defpath_id id="52" />
  </logic>

```



FIG. 86

